



Corbettmaths

GCSE Foundation 100 Days to Go Revision Book

100 Days to Go



How to Use



Revision Cards



Revision Resources



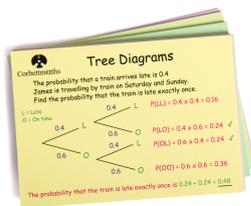
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Useful Resources

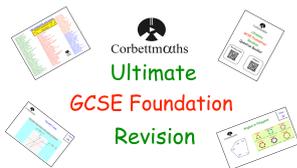
Revision Cards



Checklist



Ultimate Revision Video



5-a-day Books



100 Days to Go
Video



Video Numbers: 6, 98,
200, 304

$$655 + 174$$

$$845 - 272$$

$$52 \times 17$$

$$1144 \div 8$$

A theatre has 18 rows.
There are 24 seats in each row.
During a show at the theatre, there are 65 empty seats.
Work out how many people are watching the show.

99 Days to Go
Video



Revision Card Number: 39

Video Numbers: 276 to 280

Round 235 to the nearest hundred.

Round 7680 to the nearest thousand.

Round 5.18 to one decimal place.

A plane ticket costs £384
Round this amount to the nearest £10

Round 46781 to 1 significant figure.

The population of Wells is 12000 to the nearest thousand.

What is the lowest possible population of Wells?

A farmer says she has 2500 sheep, to the nearest 100.

What is the greatest possible number of sheep she has?

What is the highest possible population of Wells?

98 Days to Go
Video



Revision Card Number: 41

Video Number: 211

Work out $5 + 2 \times 9$

Work out $3 + 5^2$

Work out $(9 + 4) \times (100 \div 25)$

Work out $50 - 2^3 \times 4$

97 Days to Go
Video



Revision Card Numbers: 34, 35, 36

Video Numbers: 216, 220, 225

List 5 multiples of 7

List 5 multiples of 12

Write down three common multiples of
4 and 10

Find the lowest common multiple (LCM)
of 12 and 8

A blue light flashes every 9 seconds.
A red light flashes every 12 seconds.
Both lights have just flashed.
After how many seconds will both lights
flash together?

Find the factors of 18

Find the common factors of 12 and 30

Find the highest common factor (HCF) of
21 and 28

Harry says that all prime numbers are odd.
Explain why Harry is wrong.

96 Days to Go
Video



Revision Card Numbers: 37, 38

Video Numbers: 212, 226

Work out 15^2

Use a calculator to work out 64^2

Work out $\sqrt{64}$

Use a calculator to work out $\sqrt{33.64}$

Use a calculator to work out 17^3

Use a calculator to work out $\sqrt[3]{729}$

81 90 8
21 27 25

List any square numbers shown above.

List any cube numbers shown above.

Work out $7^2 + 2^3$

Martha says "when you cube a number, the answer will always be larger than the number you started with."
Show that Martha is wrong.

95 Days to Go
Video



Revision Card Number: 64
Video Number: 172

Write $4 \times 4 \times 4$ in index form

Write $2 \times 2 \times 2 \times 2 \times 2 \times 2$ in index form

Write $y \times y \times y \times y \times y$ in index form

Work out 2^4

On your calculator, work out 2^6

Work out 3^4

Work out 10^6

Work out 1^7

94 Days to Go
Video



Video Numbers: 135, 137,
143, 146

$$\frac{1}{4} \text{ of } 24$$

$$\frac{2}{3} \text{ of } 60$$

$$\frac{2}{7} \text{ of } 35$$

Write 20p as a fraction of £5

Gregory received £600

He gave $\frac{1}{3}$ of it to charity and spent $\frac{2}{5}$ of it on a violin.

What fraction of his money is left?

Simplify $\frac{6}{8}$

Simplify $\frac{15}{25}$

Simplify $\frac{12}{18}$

Find the missing numbers

$$\frac{\square}{5} = \frac{6}{15}$$

$$\frac{2}{3} = \frac{8}{\square}$$

Arrange in order, smallest first.

$$\frac{3}{4} \quad \frac{2}{3} \quad \frac{5}{6} \quad \frac{7}{12}$$

Arrange in order, largest first.

$$\frac{3}{8} \quad \frac{1}{5} \quad \frac{7}{20} \quad \frac{1}{2}$$

93 Days to Go
Video



Revision Card Number: 59

Video Number: 133

$$\frac{2}{5} + \frac{1}{3}$$

$$1\frac{1}{2} + 2\frac{5}{8}$$

$$\frac{3}{4} + \frac{1}{6}$$

$$5\frac{7}{10} + \frac{3}{4}$$

$$\frac{6}{11} - \frac{1}{2}$$

$$2\frac{1}{3} - \frac{3}{4}$$

Estelle runs $3\frac{4}{5}$ miles in week 1.

She runs $5\frac{2}{3}$ miles in week 2.

How far does Estelle run in total?

92 Days to Go
Video



Revision Card Numbers: 60, 61

Video Numbers: 134, 142

$$\frac{3}{4} \times \frac{2}{5}$$

$$1\frac{1}{4} \times 2\frac{2}{3}$$

$$\frac{7}{15} \div \frac{3}{4}$$

$$2\frac{1}{2} \div 1\frac{3}{5}$$

Olivia feeds her cat $\frac{2}{3}$ of a can of cat food every day.

How many cans should she buy to have enough food to feed her cat for 10 days?

91 Days to Go
Video



Revision Card Number: 58

Video Numbers: 129, 130, 131

Write 0.65 as a percentage

Write 0.65 as a fraction

Write 3% as a decimal

Write 3% as a fraction

Write $\frac{3}{5}$ as a decimal

Write $\frac{3}{5}$ as a percentage

Complete the table

Fraction	Decimal	Percentage
$\frac{1}{2}$		
	0.25	25%
$\frac{1}{5}$		20%
	0.17	

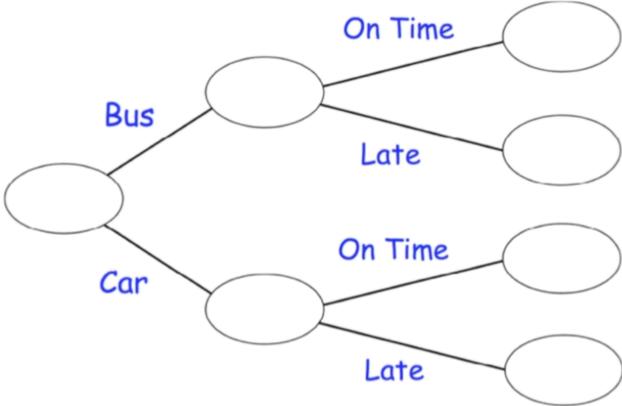
90 Days to Go Video



Video Number: 376

44 people work for a company and travel by bus or car.
 18 of the 20 people who travelled by bus were on time.
 7 people who travelled by car were late.

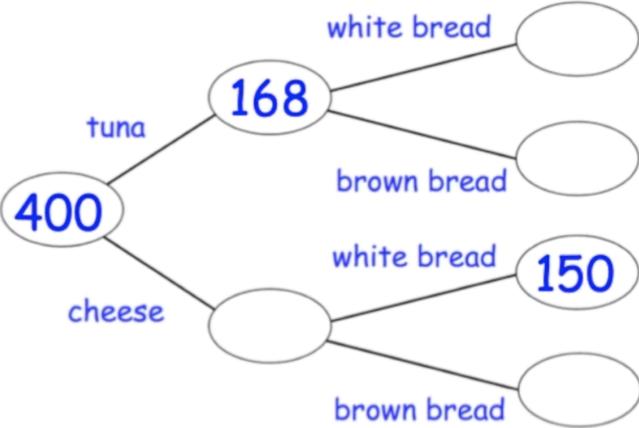
(a) Complete the frequency tree



(b) Write down the probability that a person, picked at random, travelled by car and was on time.

400 sandwiches are prepared for a picnic.
 A quarter of the tuna sandwiches are made with white bread.

What fraction of the sandwiches are made with brown bread?



89 Days to Go Video

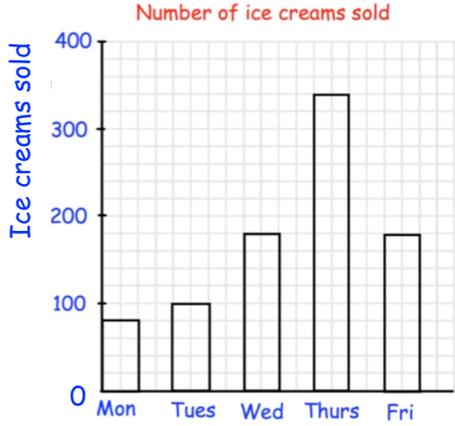


Revision Card Number: 22
Video Numbers: 147, 148, 161, 162 321

Complete the tally chart

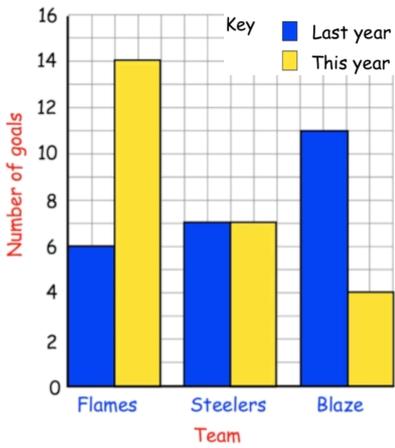
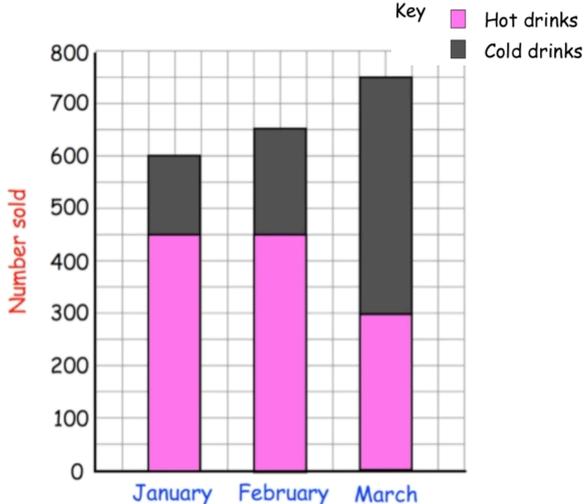
Day	Tally	Frequency
Monday		12
Tuesday		
Wednesday		7
Thursday		
Friday		10

Number of ice creams sold



On which two days were the same number of ice creams sold?
How many more were sold on Thursday than Friday?

Catherine says the 3 teams scored more goals last year than this year. Is she right?

On which two months were the same number of hot drinks sold?
How many cold drinks were sold in March?

Paris	○ ○ ◐
Cork	○ ○ ○
London	○ ◑
Swansea	○ ○ ◒

Key ○ represents 4 hours

How many more hours of sunshine did Swansea have than London?

88 Days to Go
Video

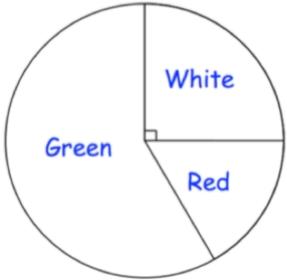


Revision Card Number: 25
Video Numbers: 163, 164

Find the size of each angle for a pie chart.

Colour	Frequency
Red	17
White	20
Silver	2
Black	15
Blue	6

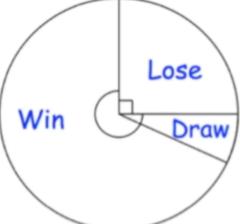
The pie chart shows information about the colour of sweets in a bag.



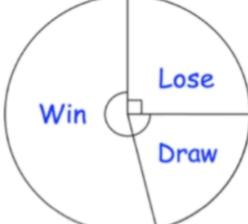
What is the most popular colour of sweet?

What fraction of the sweets are white?

Football Team



Rugby Team



The rugby team and football team both lost a quarter of their matches?
True/False/Cannot Tell

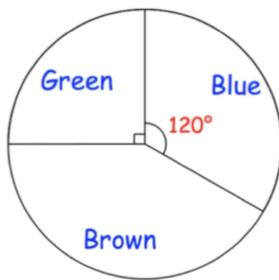
The rugby team won more matches than they lost
True/False/Cannot Tell

The football team won more matches than the rugby team.
True/False/Cannot Tell

The rugby team drew a larger proportion of their matches than the football team.
True/False/Cannot Tell

The football team played 10 games last season.
True/False/Cannot Tell

The pie chart shows information about the eye colours of 48 friends.

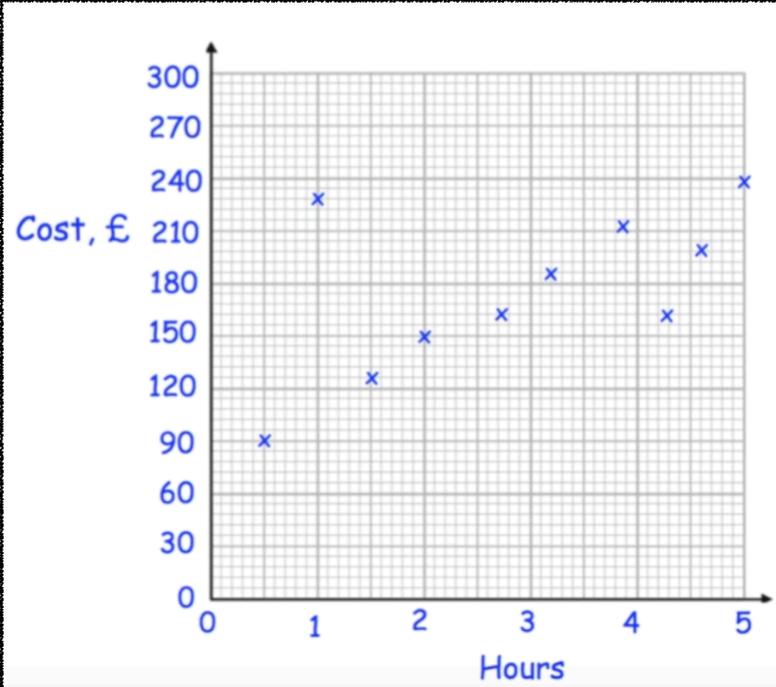


How many have brown eyes?

87 Days to Go
Video



Revision Card Numbers: 23, 24
Video Numbers: 165 to 168



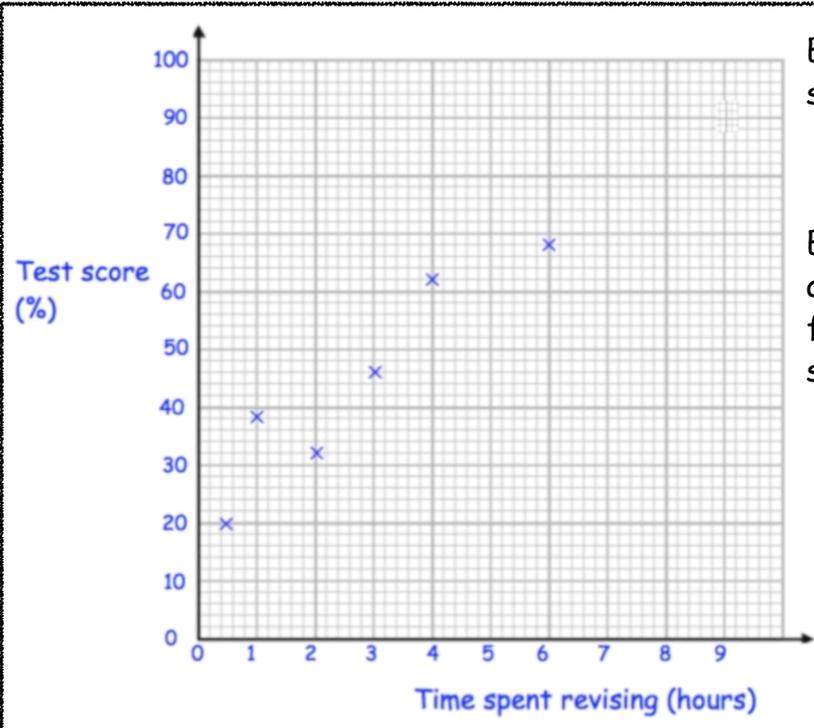
What type of correlation is shown?

Draw a line of best fit.

Estimate the cost of a job lasting 2.5 hours.

Estimate the duration of a job costing £180

Circle the outlier.



Estimate the test score for a student who revised for 5 hours.

Explain why it may not be appropriate to use your line of best fit to estimate the test score of a student who revised for 9 hours.

86 Days to Go
Video



Revision Card Numbers: 8, 9, 10, 11

Video Numbers: 50, 53, 56, 57

Here are the ages of 8 dogs.

7 1 9 14 3 6 3 5

Find the mean age

Find the modal age

Find the range of the ages

Find the median age

Henry wrote down the number of letters he received each day last week.

9 0 4 5 8 11 8

Henry says the median is 5.

Explain why he is wrong

The mode is 4

The median is 8

The range is 11

The mean is 9

Write the numbers on the cards.

Class 1 and Class 2 sit a test.

Class 1 have a mean score of 19.2 and the range of the scores in Class 1 is 6

The scores in Class 2 are: 13 11 25 18 24 19 22 23 25 30

Mr Beattie says Class 1 performed better than Class 2, do you agree?

85 Days to Go
VideoVideo Numbers: 51, 54,
56a, 57a

A football team played 25 matches and the table shows information about the number of goals they scored in each match.

Goals scored	Frequency
0	9
1	10
2	4
3	2

Write down the modal number of goals scored.

Work out the range of the number of goals scored.

Work out the mean of the number of goals scored.

Work out the median of the number of goals scored.

84 Days to Go
Video



Revision Card Number: 12

Video Number: 55

Work out an estimate for the mean price.

Price (£)	Frequency
$0 < x \leq 10$	2
$10 < x \leq 20$	6
$20 < x \leq 30$	9
$30 < x \leq 40$	3

Work out an estimate for the mean age.

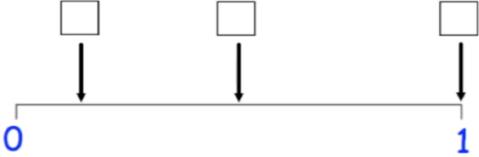
Age (A years)	Frequency
$10 \leq A < 30$	12
$30 \leq A < 50$	20
$50 \leq A < 70$	16
$70 \leq A < 90$	2

83 Days to Go
Video



Revision Card Number: 71
Video Numbers: 245, 250, 251

An ordinary dice is rolled. Label the probability scale with A, B and C



A: Rolling a number less than 8
B: Rolling an even number
C: Rolling a 4

Sean has 7 blue pens, 4 black pens and 2 red pens. A pen is picked at random.

Write down the probability of a red pen.

Write down the probability that the pen is not blue.

Counters with the letters A, B, C, D and E are placed in a bag.

Letter	A	B	C	D	E
Probability	0.07	0.15	0.14		0.11

Find the probability of a D

The probability that Eric hits a "bullseye" when he throws a dart is 0.35
Eric throws a dart at a dartboard 800 times.

How many bullseyes should he hit?

A counter is picked at random from each bag and the numbers are multiplied together.

		Bag 1		
x		1	2	5
Bag 2	2			
	3			
	4			

Find the probability of a multiple of 4

82 Days to Go
Video



Revision Card Number: 72
Video Number: 253

Molly chooses a starter and a main.
List all the possible combinations.

Starters	Mains
Soup	Curry
Doughballs	Pizza
Kebab	Stir-fry

James takes part on one activity on Monday and one activity on Tuesday.
List all the possible combinations.

Monday	Tuesday
Football	Rugby
Baseball	Hockey
	Swimming

3 coins are flipped.
List all the possible outcomes.

A counter is picked from each tub at random.
If the two colours are the same, the player wins.

Tub 1

Green	Blue
Red	

Tub 2

Yellow	Pink
	Red
Green	Orange

Find the probability that the player wins.

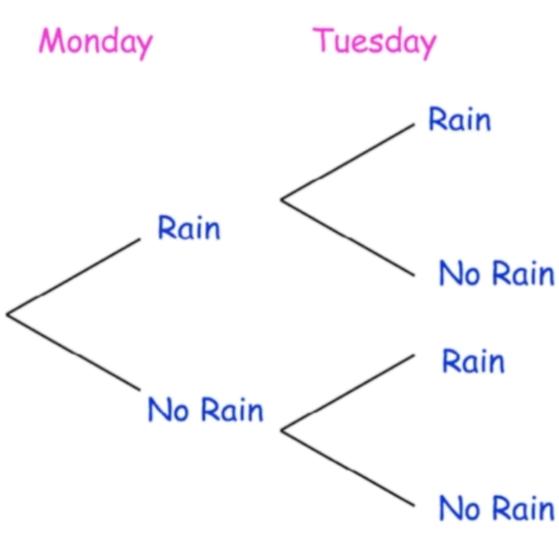
81 Days to Go
Video



Revision Card Number: 73
Video Number: 252

The probability of rain on Monday is 0.7
The probability of rain on Tuesday is 0.4
Complete the tree diagram.

Monday

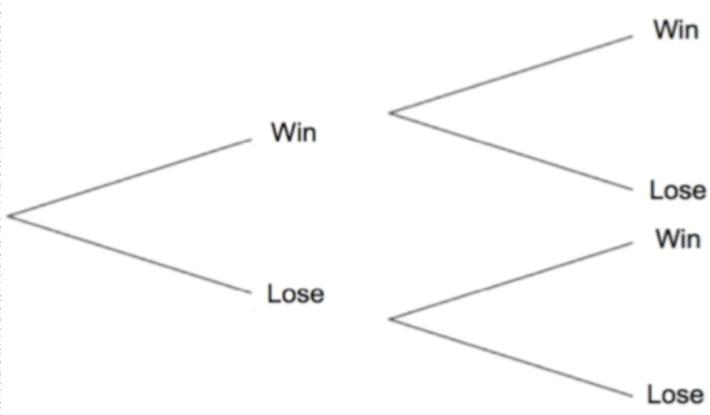


Tuesday

Find the probability that it does not rain on either day.

Find the probability that it rains on exactly one day.

Norva plays two games.
The probability she wins the first game is $\frac{1}{3}$
The probability she loses the second game is $\frac{7}{8}$
Complete the tree diagram.



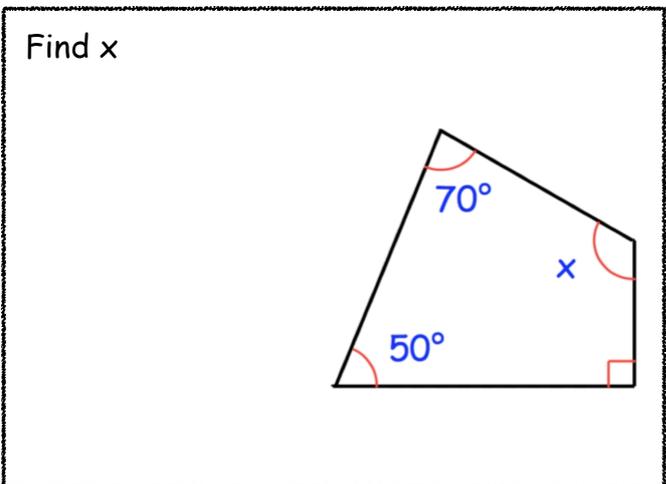
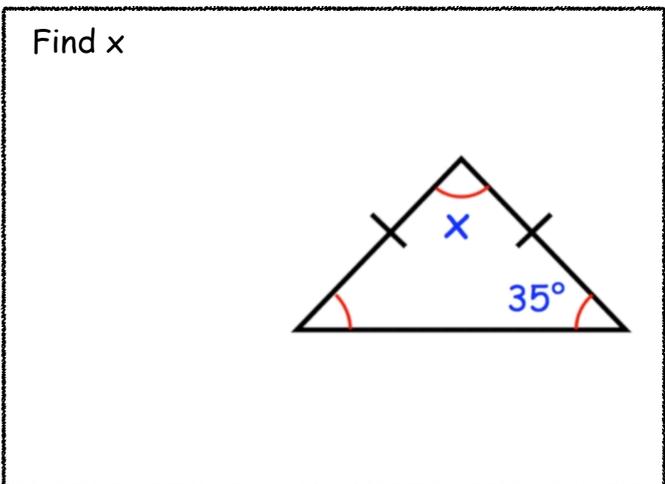
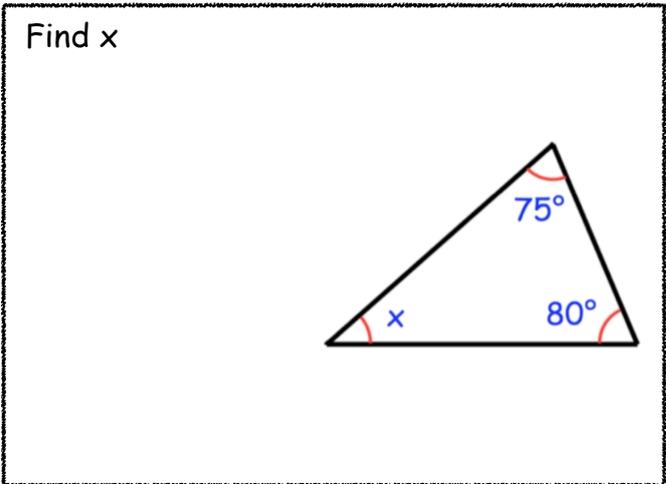
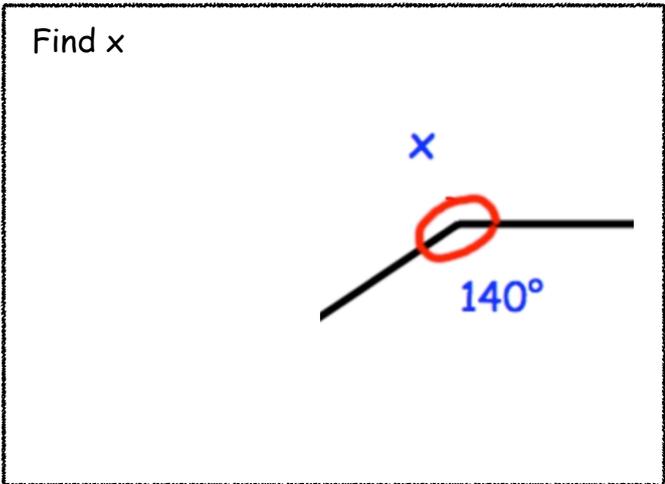
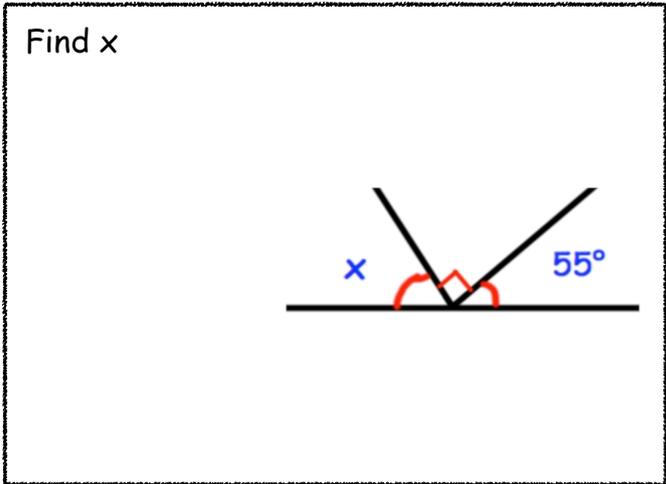
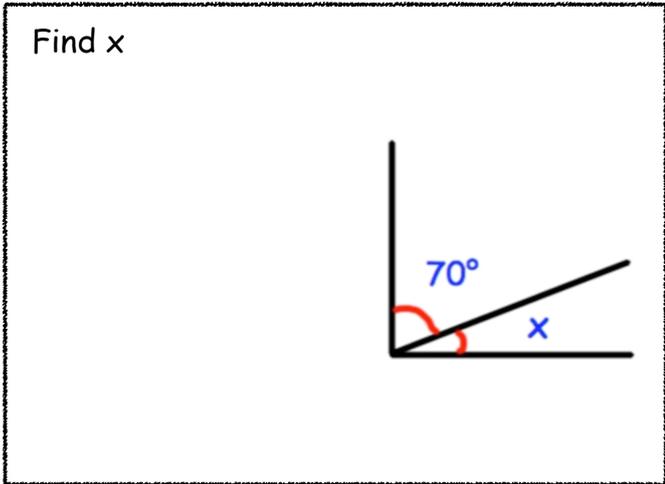
Find the probability that Norva wins both games.

Find the probability that Norva wins at least one game.

80 Days to Go Video



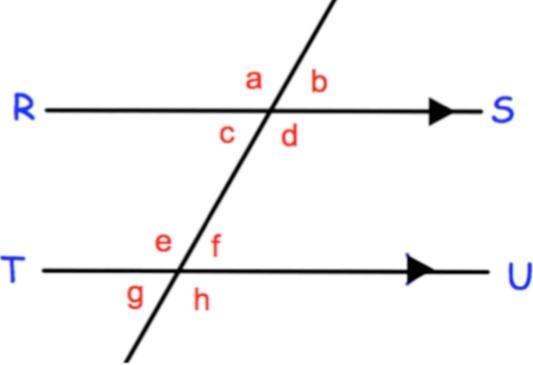
Revision Card Numbers: 1, 2
Video Numbers: 30, 33, 34, 35, 37, 38, 39



79 Days to Go Video

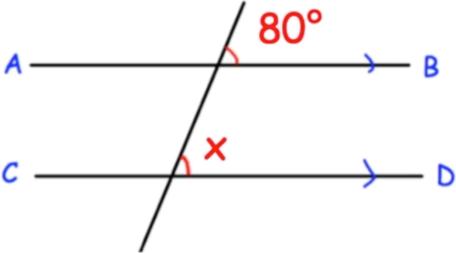


Revision Card Number: 4
Video Number: 25

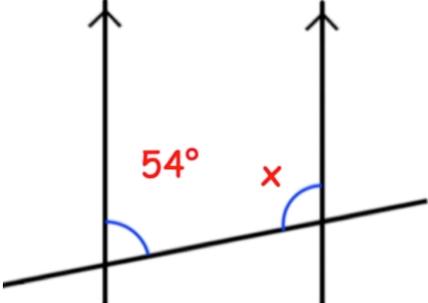


Which angle is corresponding to h?

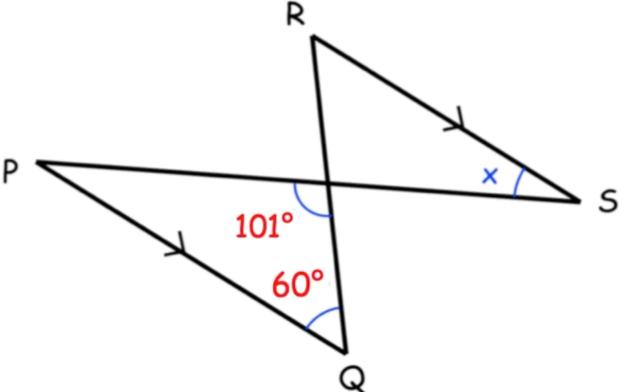
Which angle is alternate to c?



AB is parallel to CD.
Work out the size of x
Give a reason for your answer



Work out the size of x
Give a reason for your answer



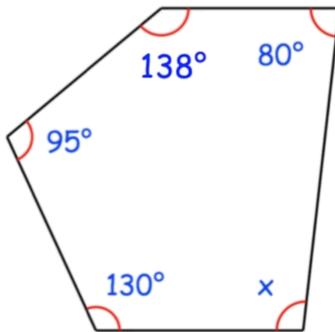
PQ and RS are parallel.
Work out the value of x

78 Days to Go
Video



Revision Card Numbers: 5, 6

Video Number: 32



Find x

Find the sum of the interior angles of a 9 sided polygon.

The sum of the interior angles of a polygon is 3960°
How many sides does it have?

Find the size of each interior angle of a regular pentagon.

Work out the size of each exterior angle of a 15 sided regular polygon.

Work out the size of each interior angle of a 15 sided regular polygon.



Shown is an interior angle from a regular polygon.
Calculate the number of sides the polygon has.

77 Days to Go
Video



Revision Card Number: 7
Video Numbers: 26, 27, 27a

Write down the three figure bearing of Castletown from Milton.



Write down the three figure bearing of Belfast from Antrim.



Write down the three figure bearing of Portrush from Larne.

The park is on a bearing of 070° from the school.
 The park is on a bearing of 320° from the shop.
 Show the park on the map.

The bearing of town A from town B is 135°
 What is the bearing of town B from town A?

The bearing of C from D is 288°
 What is the bearing of D from C?

76 Days to Go
Video



Revision Card Numbers: 20, 21
Video Numbers: 68 to 77

Draw the locus of all the points that are 2cm from the line



A boat is within 8 miles of lighthouse A.
The same boat is within 6 miles of lighthouse B.
Shade the possible area in which the boat could be.

1cm = 1 mile



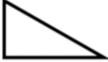
75 Days to Go Video



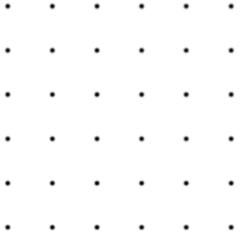
Revision Card Numbers: 26, 27, 28

Video Number: 3, 4, 5

Match the triangle to its name.

	Right-angled triangle
	Equilateral triangle
	Scalene triangle
	Isosceles triangle

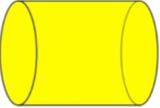
Draw a kite



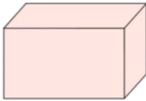
Draw a parallelogram



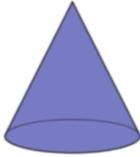
Write down the name of this 3D shape.



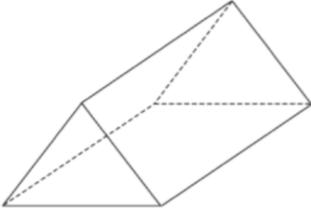
Write down the name of this 3D shape.



Write down the name of this 3D shape.



Here is a triangular prism.



How many edges does it have?

How many faces does it have?

How many vertices does it have?

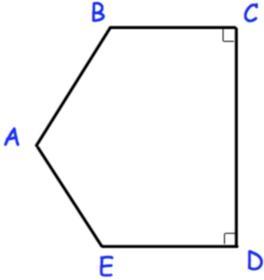
Circle the solid with 5 vertices.

Cube Triangular prism

Square based pyramid Cylinder

Which line is parallel to BC?

Which line is perpendicular to BC?



74 Days to Go
Video

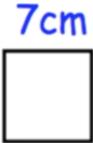


Revision Card Numbers: 13, 14
Video Numbers: 45, 49

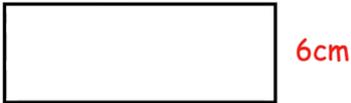
Find the area of the rectangle



Find the area of the square



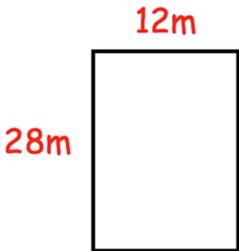
Find the area of the rectangle



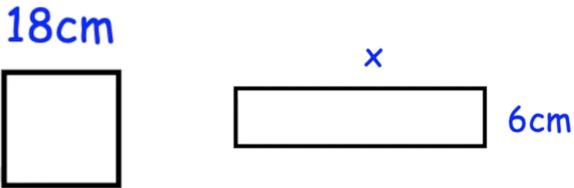
The area of the rectangle is 78cm^2
Find y .



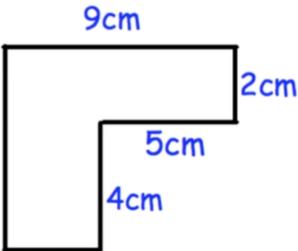
A square metre of artificial grass costs £14
How much would it cost for the whole garden?



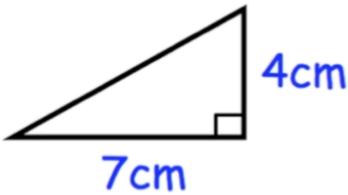
The area of the square is the same as the area of the rectangle.
Find the length of the rectangle.



Find the area of this shape

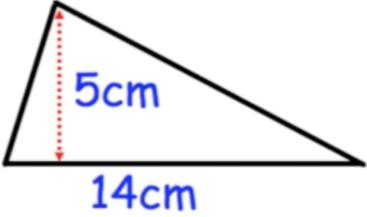


Find the area of the triangle



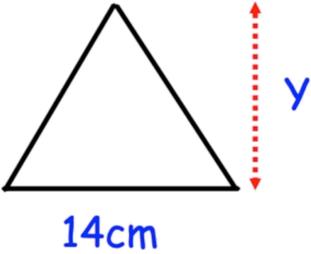
A right-angled triangle with a horizontal base of 7cm and a vertical height of 4cm. A small square at the vertex where the base and height meet indicates a right angle.

Find the area of the triangle



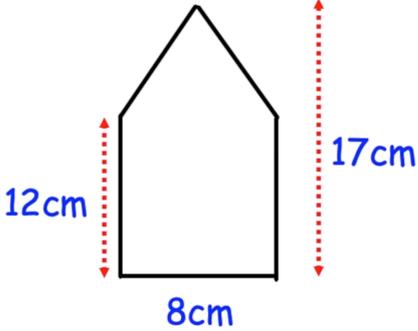
A triangle with a horizontal base of 14cm. A dashed vertical line from the top vertex to the base represents the height, which is 5cm.

The area of the triangle is 56cm^2
Find y .



A triangle with a horizontal base of 14cm. A dashed vertical line from the top vertex to the base represents the height, which is labeled y .

Find the area of this shape



A house-shaped polygon consisting of a rectangle with a triangle on top. The base of the rectangle is 8cm. The height of the rectangle is 12cm. The total height from the base to the top of the triangle is 17cm. A dashed vertical line on the right side indicates the total height.

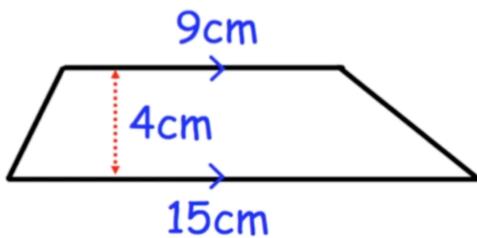
73 Days to Go
Video



Revision Card Number: 15

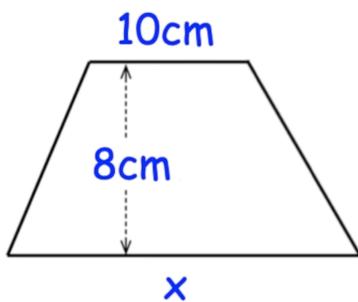
Video Number: 48

Find the area of the trapezium



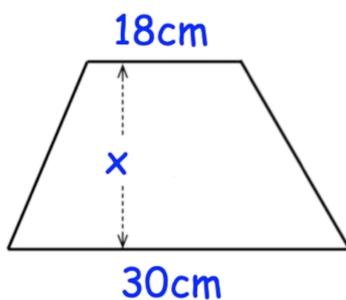
The area of the trapezium is 104cm^2

Find x



The area of the trapezium is 360cm^2

Find x

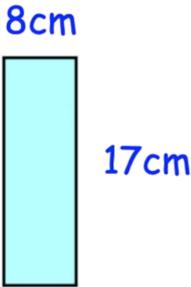


72 Days to Go Video

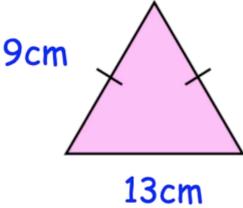


Revision Card Numbers: 16, 32
Video Numbers: 241, 316, 317

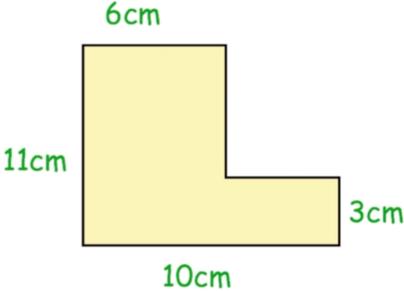
Work out the perimeter



Work out the perimeter



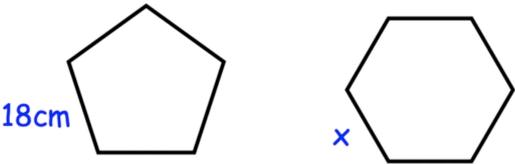
Work out the perimeter



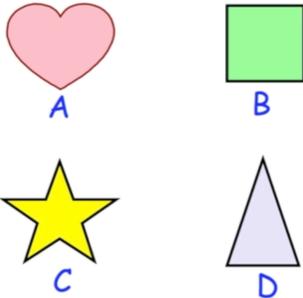
The rectangle and square have the same perimeter.
Find x



The regular pentagon and regular hexagon have the same perimeter.
Find x



Circle the shape with rotational symmetry order 4.



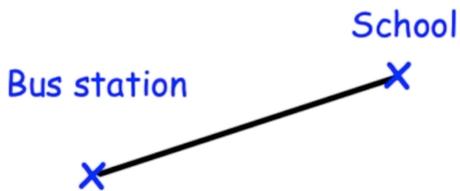
71 Days to Go
Video



Revision Card Number: 31

Video Numbers: 27b, 283, 354

What is the actual distance between the school and the bus station?



1cm represents 500m

Wells is 60 miles south of Milton
Show Wells on the map.



1cm represents 30 miles

Castleton
x



Leek x x Donhampton

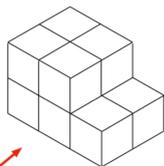
Milton x x Sandcliff

What direction is Donhampton from Leek?

What direction is Sandcliff from Donhampton?

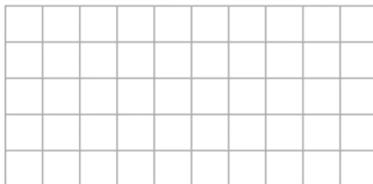
What direction is Leek from Castleton?

What direction is Leek from Sandcliff?

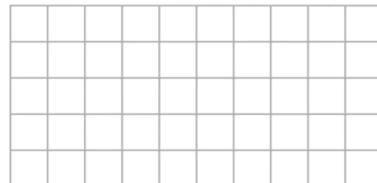


Front

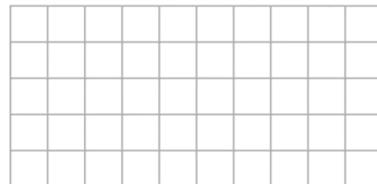
Draw the side elevation



Draw the plan view



Draw the front elevation



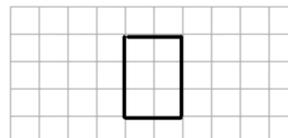
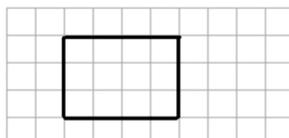
The front and side elevations have been drawn of a shape.

Front elevation

Side Elevation

Plan View

Draw the plan view

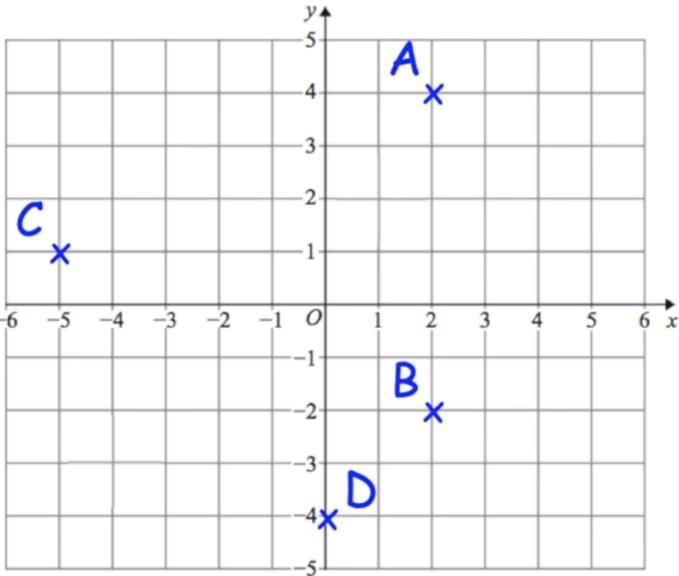


70 Days to Go Video



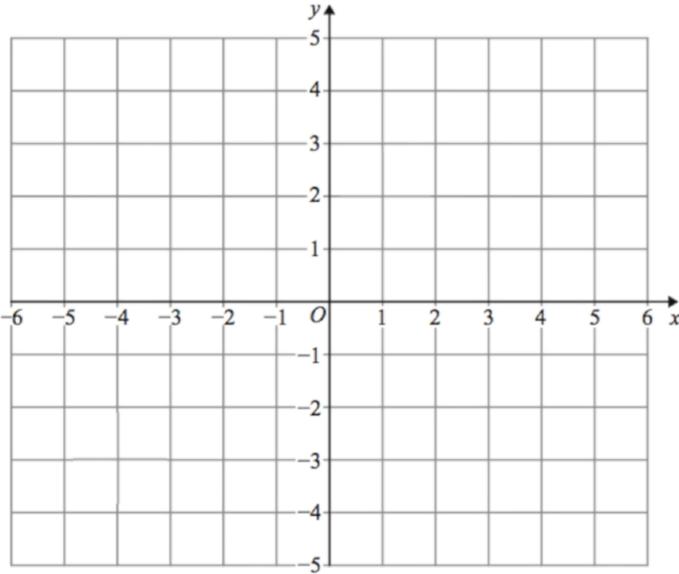
Video Numbers: 84, 85, 87

Write down the coordinates of the 4 points on the grid.

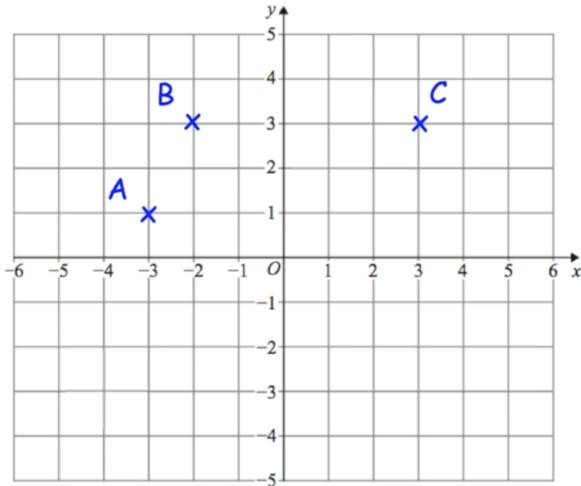


Plot the points with coordinates:

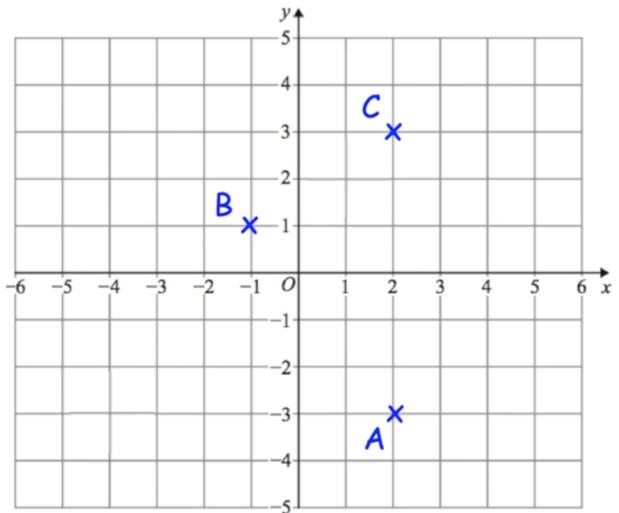
- A(1, 3)
- B(5, 2)
- C(-3, 4)
- D(2, -1)
- E(-1, 0)
- F(-3, -2)



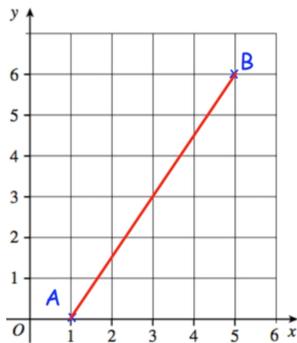
ABCD is a parallelogram.
Plot D on the grid.



ABCD is a kite.
Plot D on the grid.

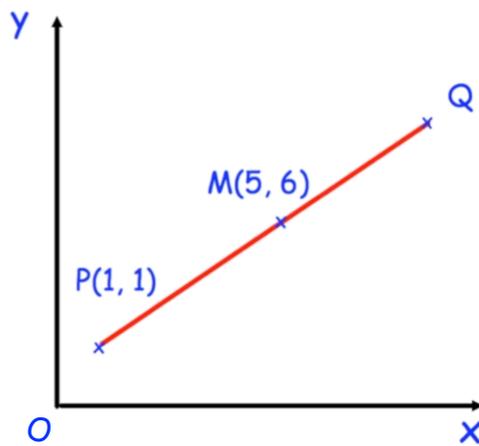


Find the coordinates of the midpoint of AB

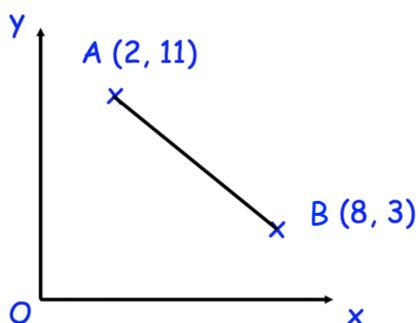


M is the midpoint of PQ

Find the coordinates of point Q



Find the coordinates of the midpoint of AB



69 Days to Go
Video



Revision Card Number: 49

Video Number: 16

Jacob has 4 bags of sweets.
There are y sweets in each bag.

Write an expression, in terms of y , for the total number of sweets.

Matt and James run a lap of a running track.
Matt takes x seconds to run a lap of the track.
James finishes 5 seconds before Matt.

Write an expression, for the number of seconds it takes James to complete the lap.

A pencil costs x pence.
A ruler costs y pence.
Erin buys 7 pencils and 2 rulers.

Write an expression for the total cost, in pence, of 7 pencils and 2 rulers.

Jake is x years old.
Anna is 9 years older than Jake.
Beth is twice as old as Jake.

Write an expression for Anna's age.

Henry is x years old.
Isaac is twice as old as Henry.
Ella is three times older than Isaac.

Write an expression for Ella's age.

Write an expression for Beth's age.

Write an expression for the sum of their ages.

68 Days to Go
Video



Revision Card Number: 64

Video Number: 174

$$y^8 \times y^3 = y \square$$

$$5^3 \times 5^4 = 5 \square$$

$$y^{-5} \times y^3 = y \square$$

$$y^{15} \div y^5 = y \square$$

$$\frac{c^{12}}{c^4} = c \square$$

$$y^8 \div y^{-4} = y \square$$

$$(y^6)^2 = y \square$$

$$(7^3)^8 = 7 \square$$

$$(y^{-3})^2 = y \square$$

Simplify

$$\frac{m^5 \times m^3}{m^2}$$

Simplify

$$m^4 \times (m^3)^5$$

Simplify

$$\frac{10m^5n^4}{2m^2n}$$

Simplify

$$6x^7y^3 \times 5x^2y$$

Simplify

$$(3m^5)^3$$

67 Days to Go
Video



Revision Card Number: 55

Video Numbers: 110, 113

Solve $w + 5 = 31$

Solve $x - 4 = 9$

Solve $4x = 24$

Solve $\frac{c}{2} = 9$

Solve $4w - 7 = 13$

Solve $\frac{c}{2} + 5 = 12$

Solve $5x + 1 = 2x + 19$

Solve $4x + 5 = 80 - x$

Solve $5(2y + 7) = 60$

Solve $2(2x + 1) = 3(x - 5)$

Solve $8w - 17 = 7$

Solve $\frac{w + 3}{5} = 6$

Solve $7w - 4 = 5w + 7$

Solve $5(3c - 2) - 7c = 40 - 2c$

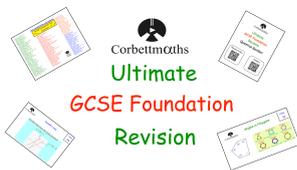
66 Days to Go
Video



Tip 1:
Get all your equipment ready and prepare a folder of past papers

Useful Corbettmaths Revision Resources

Ultimate Revision Video



Checklist

www.corbettmaths.com/contents

Foundation Tier Checklist	
Algebra - Area 1	Algebra - Area 2
Algebra - Area 3	Algebra - Area 4
Algebra - Area 5	Algebra - Area 6
Algebra - Area 7	Algebra - Area 8
Algebra - Area 9	Algebra - Area 10
Algebra - Area 11	Algebra - Area 12
Algebra - Area 13	Algebra - Area 14
Algebra - Area 15	Algebra - Area 16
Algebra - Area 17	Algebra - Area 18
Algebra - Area 19	Algebra - Area 20
Algebra - Area 21	Algebra - Area 22
Algebra - Area 23	Algebra - Area 24
Algebra - Area 25	Algebra - Area 26
Algebra - Area 27	Algebra - Area 28
Algebra - Area 29	Algebra - Area 30
Algebra - Area 31	Algebra - Area 32
Algebra - Area 33	Algebra - Area 34
Algebra - Area 35	Algebra - Area 36
Algebra - Area 37	Algebra - Area 38
Algebra - Area 39	Algebra - Area 40
Algebra - Area 41	Algebra - Area 42
Algebra - Area 43	Algebra - Area 44
Algebra - Area 45	Algebra - Area 46
Algebra - Area 47	Algebra - Area 48
Algebra - Area 49	Algebra - Area 50
Algebra - Area 51	Algebra - Area 52
Algebra - Area 53	Algebra - Area 54
Algebra - Area 55	Algebra - Area 56
Algebra - Area 57	Algebra - Area 58
Algebra - Area 59	Algebra - Area 60
Algebra - Area 61	Algebra - Area 62
Algebra - Area 63	Algebra - Area 64
Algebra - Area 65	Algebra - Area 66
Algebra - Area 67	Algebra - Area 68
Algebra - Area 69	Algebra - Area 70
Algebra - Area 71	Algebra - Area 72
Algebra - Area 73	Algebra - Area 74
Algebra - Area 75	Algebra - Area 76
Algebra - Area 77	Algebra - Area 78
Algebra - Area 79	Algebra - Area 80
Algebra - Area 81	Algebra - Area 82
Algebra - Area 83	Algebra - Area 84
Algebra - Area 85	Algebra - Area 86
Algebra - Area 87	Algebra - Area 88
Algebra - Area 89	Algebra - Area 90
Algebra - Area 91	Algebra - Area 92
Algebra - Area 93	Algebra - Area 94
Algebra - Area 95	Algebra - Area 96
Algebra - Area 97	Algebra - Area 98
Algebra - Area 99	Algebra - Area 100



Tip 2:
Make your remaining lesson time count! Are there any extra sessions available?

Tip 3:
Timings - do some past papers in timed conditions to make sure you are working at the right pace.

Tip 4:
Window pens - write the key facts and formulae on your windows at home.

Tip 5:
Try to add a bit of variety to your maths revision. Revision cards? Quiz a friend etc

Tip 6:
Watch 09:28 to 11:02 in the video to learn about "Cheat Sheets"

Tip 7:
Believe in yourself!
You can do this!

65 Days to Go
Video



Revision Card Number: 51

Video Number: 13

Expand $5(y + 3)$

Expand $4(2 - 3x)$

Expand $x(2x + 7)$

Expand $3y(y - 4)$

Expand $9(w + 8)$

Expand $5x(y - 4)$

Expand $-7(y + 2)$

Expand $y(y^2 + 4)$

64 Days to Go
Video



Revision Card Number: 53

Video Number: 117

Factorise $15x + 20$

Factorise $12y - 36$

Factorise $w^2 + 8w$

Factorise $4y^2 + 6y$

Factorise $27x - 45$

Factorise $4x + 12y$

Factorise $100x - 40$

Factorise $w^2 - 5w$

Factorise $2x^2 + 10x$

Factorise $24y^2 - 18y$

63 Days to Go
Video



Revision Card Number: 52
Video Number: 14

Expand and simplify $(x + 8)(x + 3)$

Expand and simplify $(x + 9)(x - 11)$

Expand and simplify $(3x - 1)(x - 4)$

Expand and simplify $(x + 3)^2$

62 Days to Go
Video



Revision Card Number: 54

Video Number: 118

Factorise $x^2 + 3x - 4$

Factorise $x^2 - 6x - 55$

Factorise $x^2 - 13x + 22$

Factorise $y^2 - 64$

Solve $x^2 + 11x + 28 = 0$

Solve $x^2 - 6x - 27 = 0$

Solve $x^2 - 12x + 32 = 0$

61 Days to Go
Video



Video Number: 20

Find the value of $12h + 9t$
when $h = 11$ and $t = 3$

Given that $w = 10$ and $y = -2$
find the value of $4w + 3y$

The cost of hiring a hot tub is found using the formula

Hire cost = £50 plus an extra £45 per day

Work out the cost of hiring the hot tub
for 4 days.

Alex hires the hot tub for a number
of days and the cost is £500
How many days did Alex hire the hot
tub?

x is an even number.
 y is an odd number.

State if the following are odd or even.

$5y$

$x + y$

xy

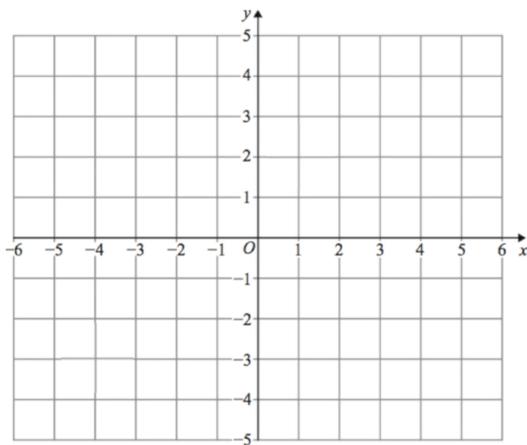
60 Days to Go
Video



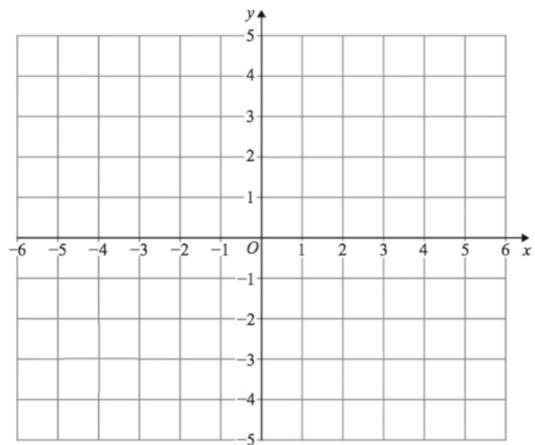
Revision Card Number: 66

Video Number: 186

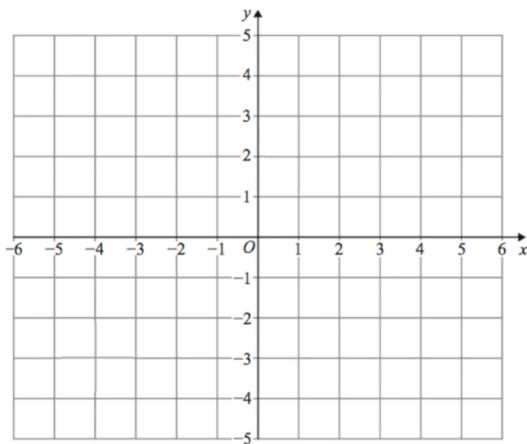
Draw $y = 1$ and draw $x = -4$



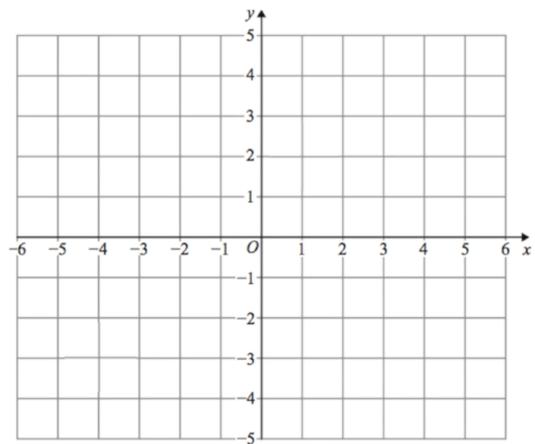
Draw $y = 2x + 1$



Draw $y = 3x - 1$

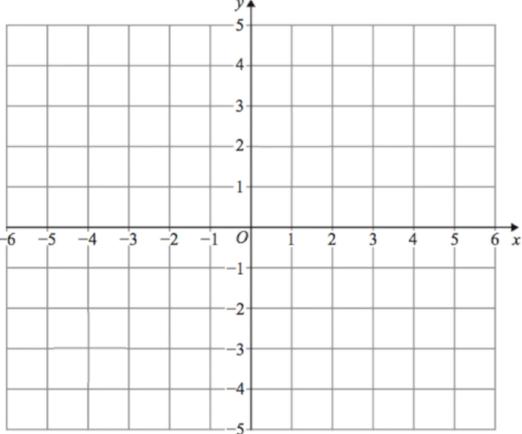


Draw $y = x + 3$

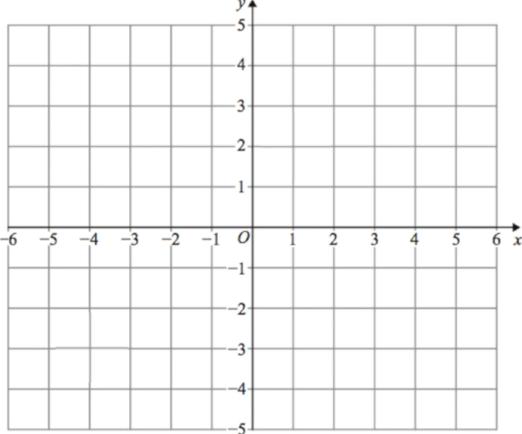


Drawing Linear Graphs

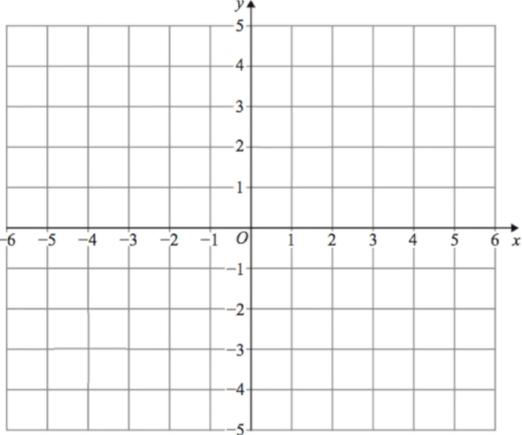
Draw $y = -2x + 1$



Draw $2x + y = 4$



Draw $3x - 2y = 6$



Tip:

When drawing graphs, an "xy table" can be helpful to find the coordinates of the points to plot.

Tip:

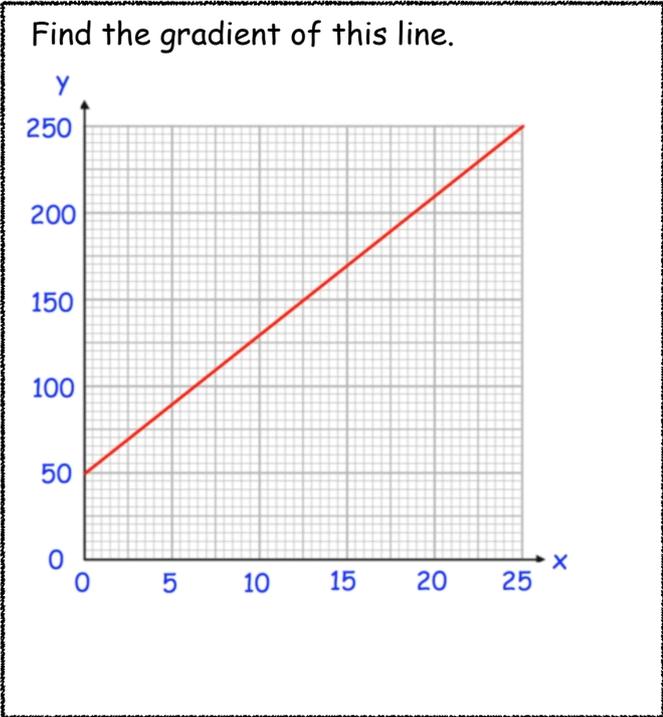
The graph of $x = 3$, would be a vertical line passing through 3 on the x-axis.

The graph of $y = 5$, would be a horizontal line passing through 5 on the y-axis.

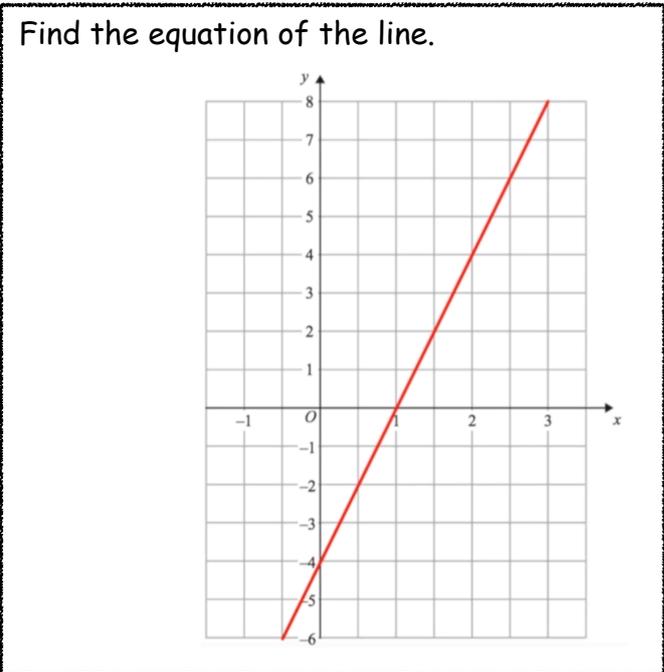
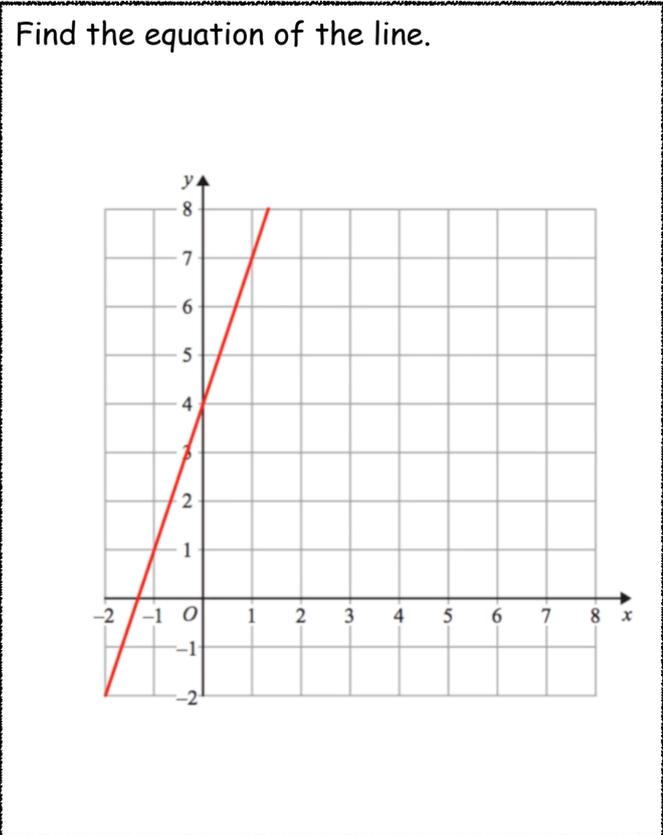
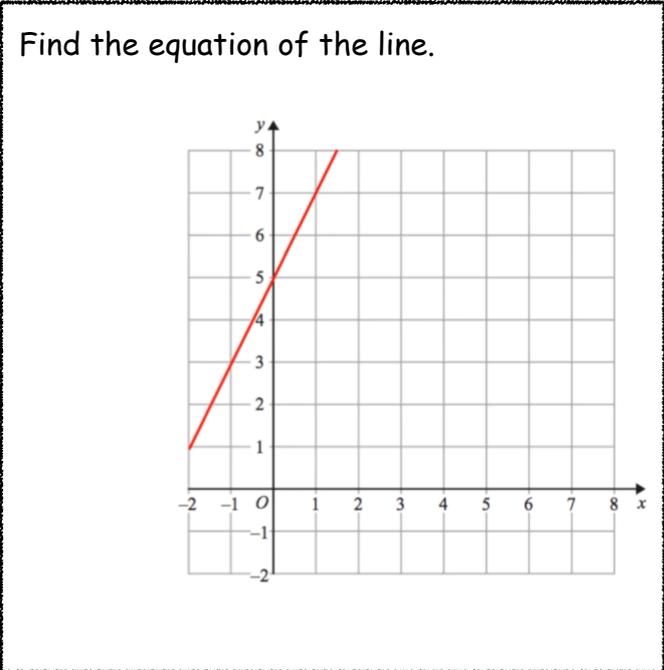
59 Days to Go
Video



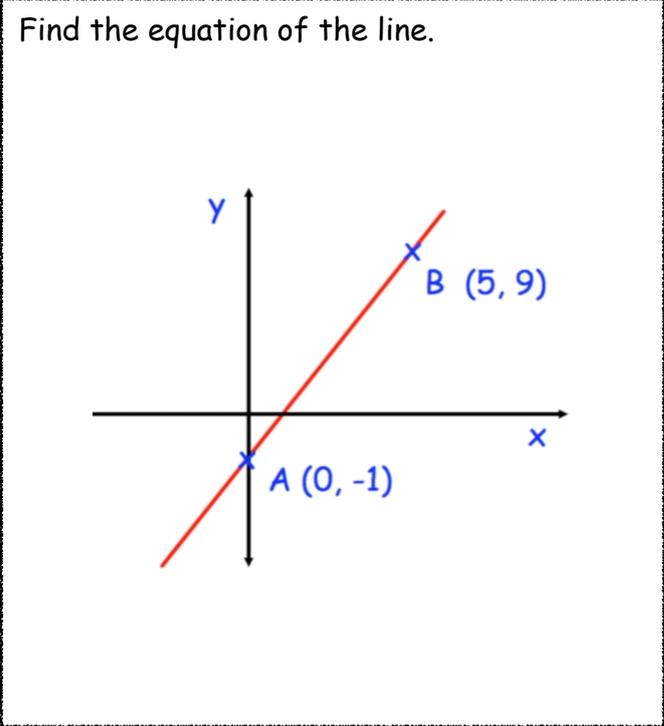
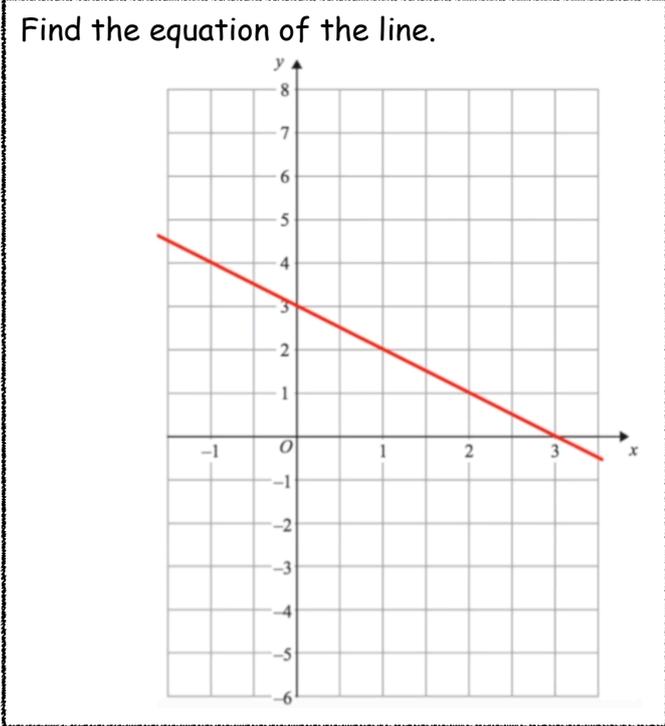
Revision Card Numbers: 67, 68
Video Number: 191



Write down the equation of a line with gradient 8 and a y-intercept of 4.

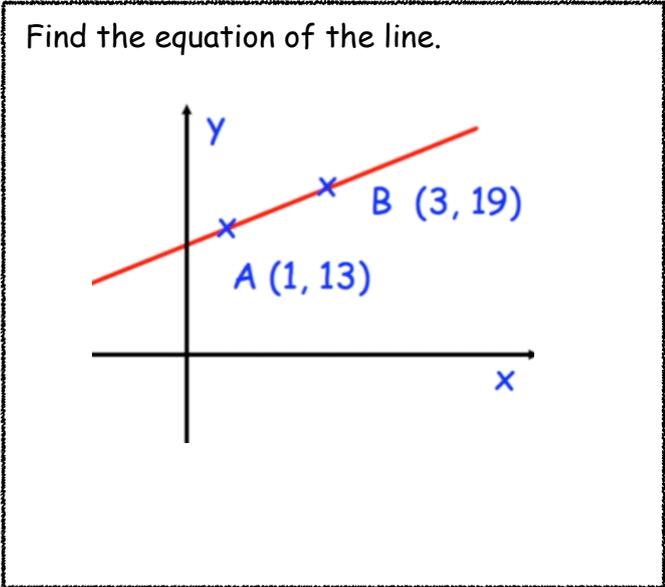


Equation of a Line



Does the point $(5, 7)$ lie on the line $y = -3x + 22$?

A line has a gradient of 7 and passes through $(2, 10)$
Find the equation of the line.



A line passes through $(-4, 3)$ and $(8, 33)$.
Find the equation of the line.

58 Days to Go
Video



Revision Card Number: 57

Video Number: 7

Make d the subject of

$$d + 3 = e$$

Make w the subject of

$$m = \frac{w}{8}$$

Make x the subject of

$$y = 5x$$

Make w the subject of

$$y = 9w + c$$

Make t the subject of

$$v = u + at$$

Make w the subject of

$$T = aw - c$$

Make w the subject of

$$c = 4w + h$$

57 Days to Go
Video



Revision Card Number: 79

Video Number: 295

Solve the simultaneous equations

$$3x + 2y = 23$$

$$2x - y = 6$$

Solve the simultaneous equations

$$5x - 3y = 33$$

$$3x - 9y = 63$$

Solve the simultaneous equations

$$5x + 3y = 22$$

$$2x + 4y = 20$$

Solve the simultaneous equations

$$2x + 2y = 14$$

$$5x - 3y = 19$$

5 adult and 3 child tickets cost £98.50

2 adult and 8 child tickets cost £70

Find the cost of each type of ticket.

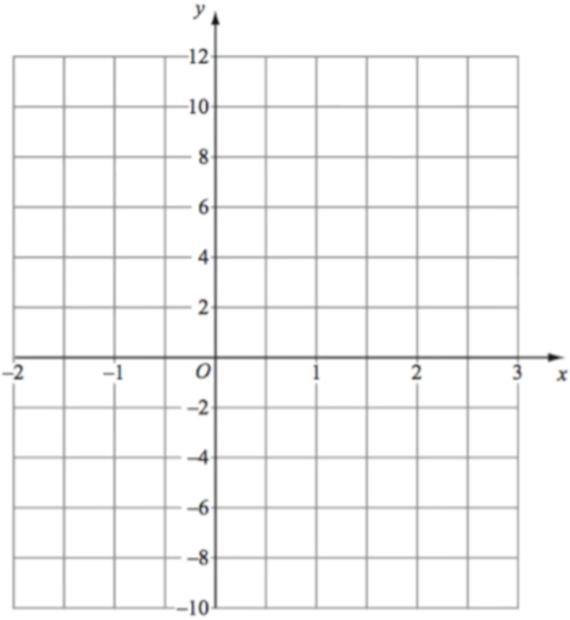
56 Days to Go
Video



Video Number: 264

Draw $y = x^2 + 2x - 3$

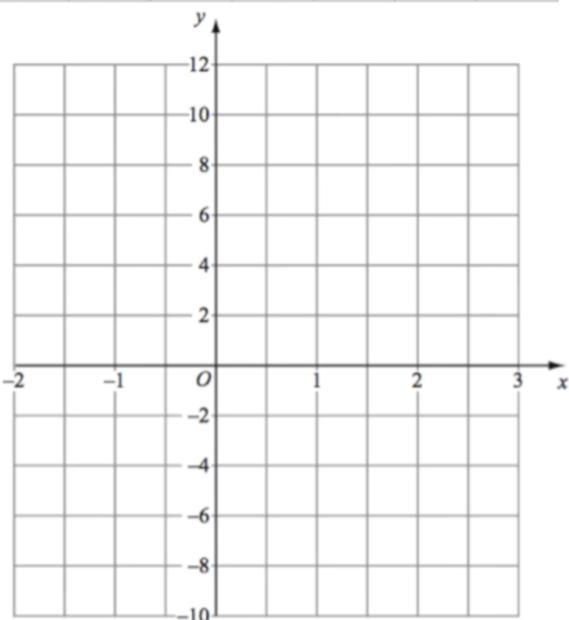
x	-2	-1	0	1	2	3
y						



Write down the coordinates of the turning point.

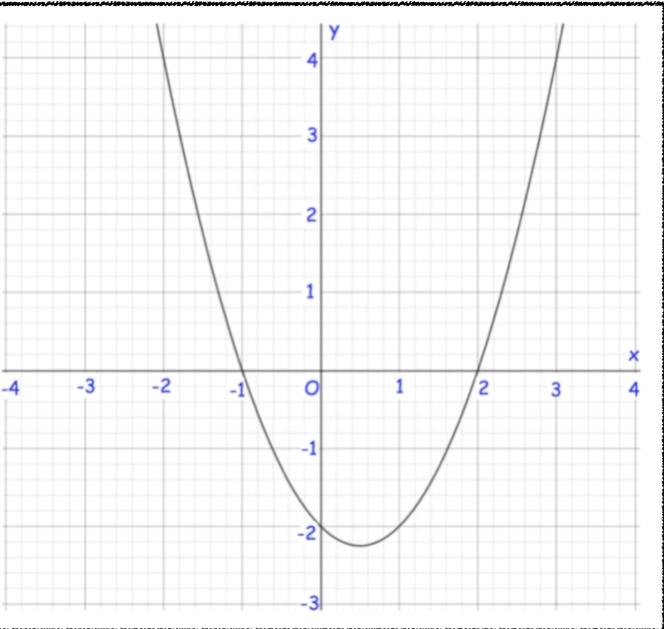
Draw $y = 2x^2 - 3x - 2$

x	-2	-1	0	1	2	3
y						



Use the graph $y = x^2 - x - 2$ to find the roots of $x^2 - x - 2 = 0$

Using the graph, estimate the values of x when $y = 3$



55 Days to Go
Video

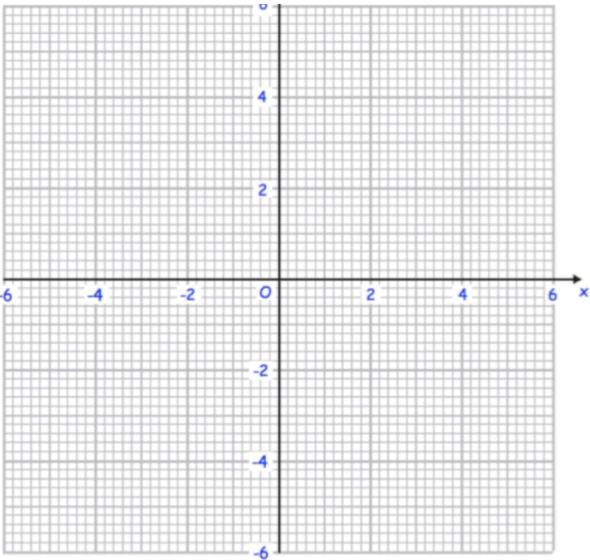


Video Numbers: 344, 346

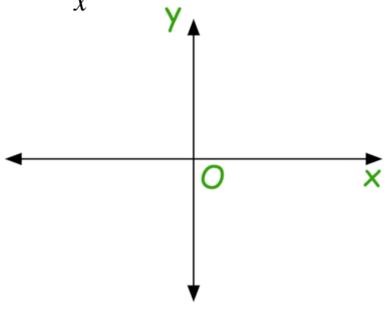
Draw $y = \frac{2}{x}$

x	-5	-2	-1	-0.5	0.5
y					

1	2	5



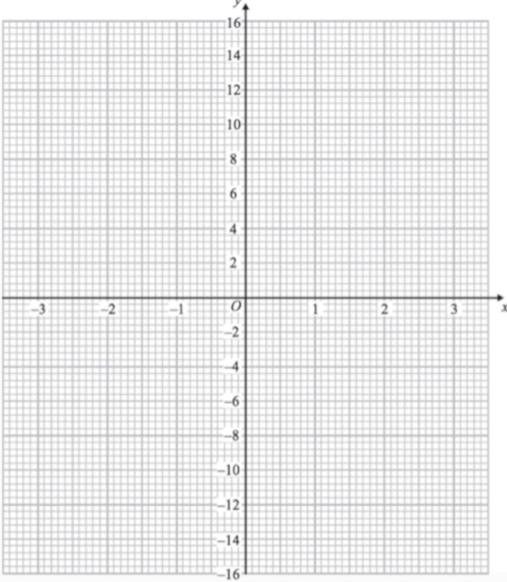
Sketch $y = \frac{1}{x}$



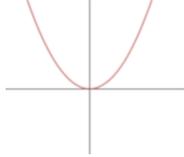
Circle the coordinates of the point that lies on the graph $y = \frac{6}{x}$

(6, 0) (-1, 6) (6, 1) (0, 6)

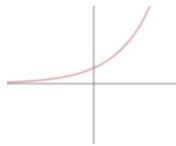
Draw $y = x^3$



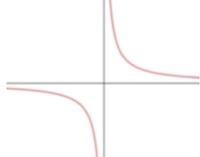
Graph A



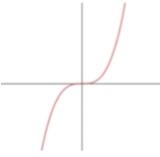
Graph B



Graph C



Graph D



$y = x^2$ is graph

$y = x^3$ is graph

$y = \frac{1}{x}$ is graph

54 Days to Go
Video



Revision Card Number: 50

Video Number: 9

Simplify $y + y + y + y - y$

Simplify $3x + 3x$

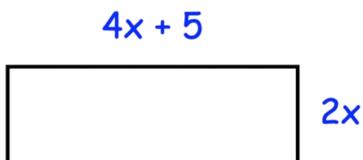
Simplify $3x - 8 + 7x + 6$

Simplify $7x + y - x + 5y$

Simplify $8x - 3y + x - 2y$

Simplify $5x^2 - 3y^2 + y^2 + 2x^2$

Write an expression for the perimeter
of the rectangle.



Simplify $3(2x - 1) + 4(x + 5)$

Simplify $8(5x - 3) - 3(x - 2)$

53 Days to Go
Video



Revision Card Numbers: 43, 44

Video Number: 223, 224

Write 50 as a product of primes.
Give your answer in index form.

A number, m , written as a product of
primes is 2×3^2

What number is m ?

Write 92 as a product of primes.
Give your answer in index form.

Write $10m$ as a product of primes.

Use your calculator to write 48 as a
product of primes in index form.

Work out the HCF and LCM of 48 and 92.

Work out the HCF and LCM of 36 and 60.

52 Days to Go
Video



Revision Card Number: 65

Video Number: 175

Work out 2^{-3}

Work out 10^{-2}

Work out 2^{-4}

Work out 11^{-2}

51 Days to Go
Video



Revision Card Number: 80

Video Number: 300 to 303

Write these numbers in standard form

7000 0.0000004

2500000 0.018

Write these numbers in standard form

30000 0.002

1800 0.000495

Write as ordinary numbers

2.7×10^4 8×10^{-2}

5.134×10^7 1.04×10^{-5}

Write in standard form

0.0013×10^8

Work out, giving your answer in standard form.

$$(8.2 \times 10^5) - (9.7 \times 10^4)$$

Work out, giving your answer in standard form.

$$(5 \times 10^7) \times (7 \times 10^2)$$

On a calculator, work out

$$(1.47 \times 10^6) \times (9 \times 10^4)$$

$$\frac{3.5 \times 10^5}{5 \times 10^{-2}}$$

An asteroid travels at 80 kilometres per second.
How far does the asteroid travel in one day?
Give your answer in metres and in standard form.

50 Days to Go
Video



Revision Card Number: 62
Video Numbers: 234, 235

Find 30% of 80cm

Find 75% of 12m

Find 3% of 4100

Find 25% of 60cm

Find 60% of 800

Find 5% of 90

Find 19% of 240

Find 38% of 460

Find 7.3% of 8000

A company is hosting a charity meal.
800 people work for the company.
70% of the employees attend.
The cost of each ticket is £12
How much money will be raised for charity?

In 2010 the population was 4,580,000
By 2024, it had increased by 18%
Work out the population in 2024

Barry earns £2600
He pays 36% of this money on tax.
How much of the £2600 does he have left?

49 Days to Go
Video



Video Number: 136, 237

Express 60p as a fraction of £3

Express 3 days as a fraction of 6 weeks

Express 50g as a fraction of 2kg

Rosie has £5
She buys a drink for £1.40 & scone for £2.90

What fraction of her money does Rosie have left?

9 out of 20 counters in a box are blue.
What percentage of the counters are blue?

Dylan bakes 600 flapjacks.
He sells 480 of them.
What percentage of the flapjacks did he sell?

James answered 40 out of 53 questions correctly.
What percentage of the questions did he answer correctly?
Give your answer to 1 decimal place.

Harold buys a car for £19500
He pays a £3120 deposit.
What is £3120 as a percentage of £19500?

48 Days to Go
Video



Revision Card Number: 78

Video Numbers: 269 to 271

Simplify

45:15

36:48

A tub contains lemon and apple sweets.
The ratio of lemon to apple sweets is 4:1
What fraction of the sweets are apple?

What percentage of the sweets are
lemon?

The ratio of adults to children at a
football match is 25:8
Write this in the form $n:1$

Omar says there are 35 sweets in the
tub. Could Omar be correct?

The three angles in a triangle are in the
ratio 5:7:8. Find the size of each angle.

A box contains red, blue and orange beads.
Ratio of red beads to blue beads is 5:2
Ratio of orange beads to red beads is 7:3
Find the ratio of blue to orange beads.

The ratio of yellow to green counters in
a box is 5:6
There are 90 yellow counters in the box.
How many counters are there in total in
the box?

47 Days to Go
Video



Video Number: 233

Last season York City sold 3200 season tickets.
This season York City sold 3800 season tickets.



Work out the percentage increase.

The height of a plant increases from 40cm to 52cm.
Work out the percentage increase.



Finn bought a TV for £250
Two years later, he sold the TV for £198



Work out the percentage loss.

46 Days to Go
Video



Video Number: 236a

£400 is invested for 3 years at 10% per year simple interest.
Work out how much money is in the account after 3 years.

Carolyn invested £900 for 3 years at 2.4% per annum simple interest.
Work out the total interest earned.

Nina invested £1500 for 4 years at 3.5% per annum simple interest.
Work out the total amount of money in the account at the end of 4 years.

Evie is saving for a guitar costing £149
She puts £600 into an account that pays 6% per annum simple interest.
After how many whole years will Evie have earned enough interest to buy the guitar?

45 Days to Go
Video



Revision Card Number: 93

Video Number: 236

Use multipliers to:

Increase 500 by 8%

Increase 3500 by 13%

Use multipliers to:

Decrease 3000 by 2%

Decrease 8000 by 24%

Jenny invested £7000 in the bank for 4 years.
It earns compound interest of 2.5% per year.
Calculate the total amount Jenny has in the bank at the end of 4 years.

The value of a car decreases 5% each year.
Sophie bought a car two years ago for £10000
Work out the value now.

The population of squirrels on an island in 2010 was 4000
Each year the population increased by 18%
In what year did the population first exceed 10000?

44 Days to Go
Video



Revision Card Number: 63

Video Number: 240

The population of Sandcliff has decreased by 2% over the past year.
The population of Sandcliff this year is 8036.
Calculate the population of Sandcliff last year.

A box contains red and yellow marbles.
30% of the marbles in the box are yellow.
There are 60 yellow marbles in the box.
Work out the total number of marbles in the box.

The number of visitors to a museum increased 12.5% between 2022 & 2023
The number of visitors in 2023 was 39375
Calculate the number of visitors in 2022

43 Days to Go
Video



Video Numbers: 214a, 256

Nicola went to Italy.
£1 = €1.40
Change £900 into euros.

A watch costs €105
How much is that in pounds?

Vicky buys an ice cream for €6.88 in Berlin. The exchange rate is £1 = €1.60
Find the cost of the ice cream in pounds.

Kevin is going on holiday to New York.
He wants to change some money into US Dollars.
The bank only stocks \$10 notes.
Kevin wants to change up to £300 into US Dollars
He wants as many \$10 notes as possible.
The exchange rate is £1 = \$1.22
How many \$10 notes should he get?

How much of each ingredient is needed for:

Ingredient	3 people?	18 people?	2 people?	1 person?	5 people?
Seafood Rice serves 6					
Rice					
Seafood Mix					
Fish Stock					
Peas					

serves 10

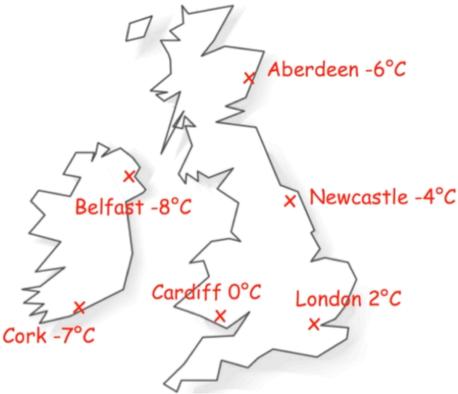
500g cod
400g haddock
600ml milk
120g butter
40g flour
1kg potatoes

Jack has 300g of cod.
How much should he use of the other ingredients?

42 Days to Go
Video



Video Numbers: 205 to 209



Write the cities in order of temperature, from coldest to warmest.

Towns	Temperature
Leek	-7°C
Milton	16°C
Donhampton	-10°C
Redtown	8°C
Sandville	-4°C

Work out the range of the temperatures

It is 9°C warmer in Watford than Sandville. What is the temperature in Watford?

7 - 10 -8 + 12

-11 - 7 5 + (-2)

8 - (-6) -9 + (-6)

7 x -3 -9 x -4

-56 ÷ 8 -42 ÷ -6

41 Days to Go
Video



Revision Card Number: 42

Video Number: 210

Regular Pack: 6 biscuits for 78p
Large Pack: 8 biscuits for £1

Which packet is better value for money?

10 chocolate bars for £4.80
15 chocolate bars for £6.90

Which is better value for money?

A 200g jar of coffee costs £7.40
A 320g jar of coffee costs £12.16

Which jar is better value for money?

345ml of paint for £4.80
250ml of paint for £3.35

Which is better value for money?

Candles normally cost £9 each.
Two websites have special offers

[Corbett Candles](#) [Candle World](#)

Buy 3 get 1 free 20% off

Matty wants to buy 14 candles.
Which website should he use?

40 Days to Go
Video



Video Number: 377

The length of a line, L cm, is 18cm to the nearest centimetre.
Write down the error interval for L .

Amelia rounds a number, y , to the nearest 10.
The result is 40
Write down the error interval for y .

Josh rounds a number, n , to the nearest thousand.
The result is 7000
Write down the error interval for n .

Hayley rounds a number, y , to the nearest 100.
The result is 5800
Write down the error interval for y .

The length of each side of a regular hexagon is 3.6cm to 1 decimal place.
Write the error interval for the perimeter, P .

39 Days to Go
Video



Video Number: 352

Calculate 7.55^2

Calculate 1.2^3

Calculate 5^6

Calculate $\sqrt{61.6225}$

Calculate $\sqrt[3]{4913}$

Calculate $\frac{1.9 \times 121.5}{30 - 4.35}$

Calculate $\frac{19.1 - 2.5}{\sqrt{20}}$

Calculate $\frac{398}{1.98^3} - \sqrt{102}$

Calculate $\sqrt{\frac{9080}{(4.7 - 0.866)^3}}$

38 Days to Go
Video



Video Numbers: 90 to 95

Arrange in order, from smallest to largest

0.14 0.4 0.165 0.086 0.35

Arrange in order, from smallest to largest

8.056 8.4 8.56 8.456

Work out $6.1 - 1.79$

Work out 0.7×0.3

Work out $11.7 \div 3$

Work out $16.7 \div 0.2$

Work out $6.5 + 1.87$

Work out 0.06×0.4

Work out $27.45 \div 5$

Work out $1.78 \div 0.4$

37 Days to Go
Video



Video Numbers: 319, 320, 387

Which caravan sleeps 6 people and has a cot?

Which caravans have decking?

Caravan	Sleeps	Cot	Decking	BBQ	Price
Luxury	6		✓	✓	£550
Basic	4	✓			£290
Family	6	✓		✓	£435
Comfort	4		✓	✓	£325

Cillian would like to buy a car with a mileage below 40000 miles.

He has £16000 to spend.

Which car should he buy?

Car	Price (£)	Age (years)	Mileage (miles)	Road Tax (£)
Explorer	£28000	3	54922	£185
Forward	£18499	5	69688	£165
Nia	£11750	5	59309	£130
Wonder	£14999	5	38551	£165
Leap	£8000	6	81231	£255
Tiny	£18500	3	9855	£30
Cheetah	£19999	4	37748	£130

Complete the two-way table.

	English	Art	Total
Pass	25		
Fail		12	13
Total		19	

150 students in Years 10 and 11 visit a school canteen.
 Some students have packed lunches and the rest have a cooked lunch.
 56 out of the 89 students who have packed lunch are in Year 10.
 There are 72 Year 11 students.
 Work out how many Year 10 students have a cooked lunch.

Darragh is travelling to Sandville.
 He arrives at Milton Bus Station at 10:45
 What time should he arrive at Sandville?

Southville	09 18	10 38	12 05
Leek	09 28	10 48	-----
Milton	09 41	11 01	-----
Newtown	09 49	11 09	-----
Red Island	09 55	11 15	12 36
Sandville	10 13	11 33	-----
Bakerstown	10 31	11 51	13 00

Noel lives in Randalstown and his friend lives in Ballycastle

	Departure times			
Antrim	12:30	13:00	14:00	16:00
Randalstown	12:45	13:15	14:15	16:15
Ballymena	13:01	13:31	14:31	16:31
Ballycastle	13:39	14:09	15:09	17:09

Noel lives a 10 minute walk from the bus stop in Randalstown.
 His friend lives a 12 minute walk from the bus stop in Ballycastle.
 Noel needs to arrive at his friend's house before 15:15
 Plan Noel's journey.

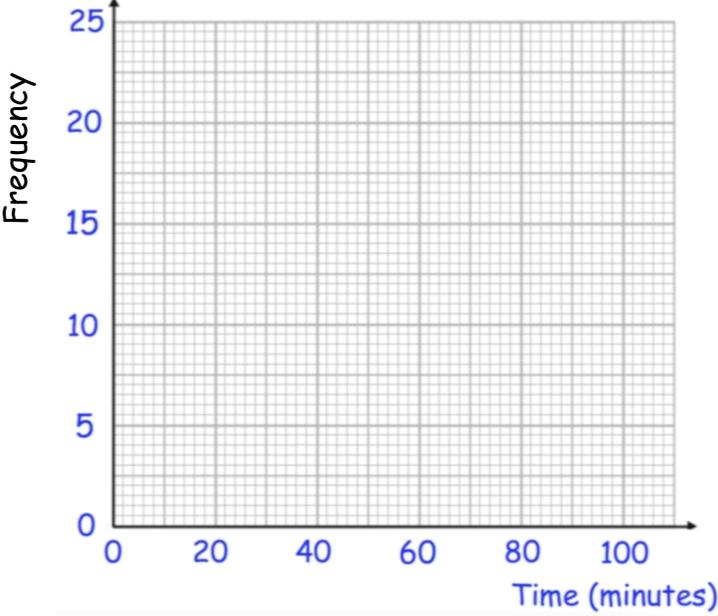
36 Days to Go
Video



Video Numbers: 155, 156,
169, 170

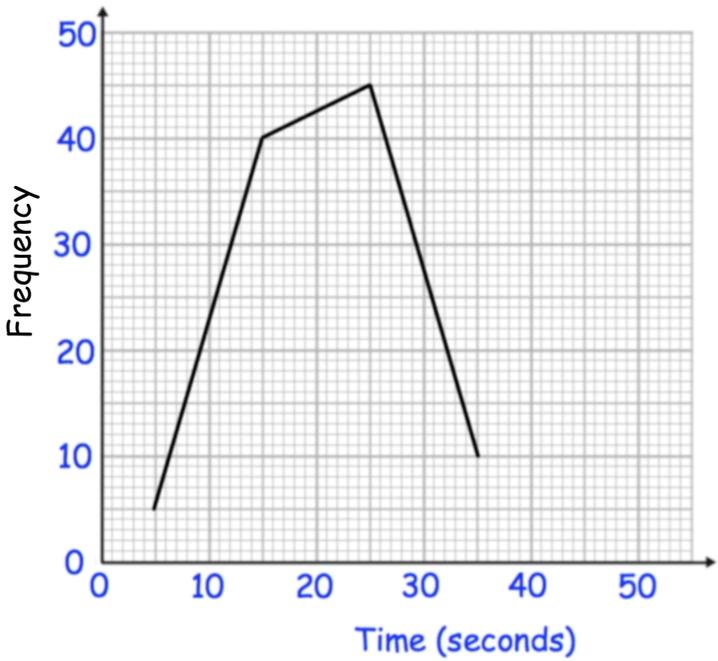
Draw a frequency polygon

Time, t minutes	Frequency
$0 < t \leq 20$	5
$20 < t \leq 40$	11
$40 < t \leq 60$	20
$60 < t \leq 80$	15
$80 < t \leq 100$	9



A student is picked at random.
Write down the probability that they took longer than 30 seconds.

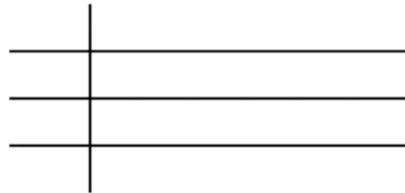
Write down the modal class interval.



Draw an ordered stem and leaf diagram.

18 34 45 11 22
 28 24 39 40 25
 27 31 24 16 27

Key:

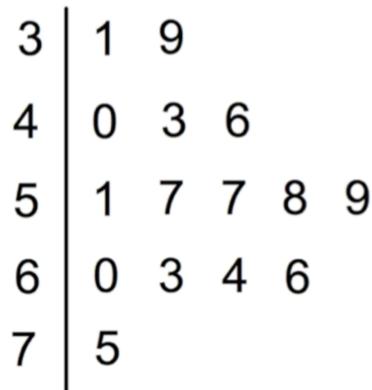


Find the modal time taken

Key: 3|1 means 31 minutes

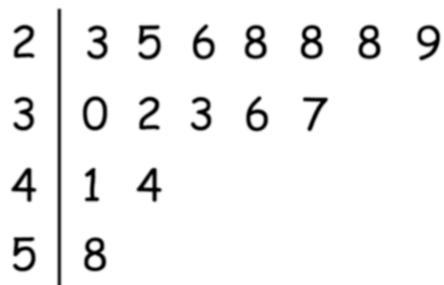
Find the range of the times taken

Find the median time taken



What fraction of students took longer than 35 minutes to complete the puzzle?

Key: 2|3 means 23 minutes



35 Days to Go
Video



Revision Card Number: 71
Video Number: 248

A coin is thrown 50 times.
It lands on tails 27 times.
Write down the relative frequency of the coin landing on heads.

Number	1	2	3	4	5	6
Frequency	22	9	14	31	19	5

Write down the relative frequency of the dice landing on an odd number.

Colour	White	Black	Red	Orange
Relative Frequency	0.25	0.4	0.2	0.15

The spinner is spun 800 times.
Write down how many times it lands on each colour.

Martin & Laura are trying to estimate how many green jelly beans are in a tub of 600

	Number of trials	Number of green jelly beans chosen
Martin	30	4
Laura	150	12

In the first forty trials, twelve blue sweets were selected. Plot this result on the graph.

How many blue sweets were selected after 100 trials?

Write down the relative frequency of Martin taking a green jelly bean.

Write down the relative frequency of Laura taking a green jelly bean.

Whose experiment gives the most accurate results?

Estimate how many green jelly beans are in the tub.

33 Days to Go
Video



Revision Card Number: 10

Video Number: 53a

The 25 students in Class A and the 15 students in Class B sit the same test.

The mean test score for Class A is 80

The mean test score for Class B is 60

Work out the mean for all 40 students.

The 30 students in Class A and the 20 students in Class B sit the same test.

The mean test score for Class A is 43

The mean test score for all 50 students in Classes A and B is 48

Calculate the mean test score for Class B

32 Days to Go
Video



Tip 1:
Remember to use black ink

Equipment

- Black ink pens
- HB pencils
- Pencil sharpener
- A good rubber
- A 30cm ruler
- Protractor
- A compass
- A scientific calculator

Tip 2:
Use your pencil for all graphs,
charts, constructions etc.

Tip 3:
I like to bring both a 180° and
also a 360° protractor into exams,
especially for bearings.

Tip 4:
Make sure your compass is
tightened.

Tip 5:
I tend to keep a pencil in my
compass to save time.

Tip 6:
Bring your calculator to all your
lessons to make sure you are
familiar with all the buttons.

Tip 7:
You can ask the invigilators for
tracing paper. It can be useful for
questions on rotations.

31 Days to Go
Video



Revision Card Number: 48

Video Number: 299

A car drives 180 miles in 4 hours.
Calculate the average speed of the car.

Kevin runs 300 metres in 50 seconds.
Work out his average speed.

A train travels 135 miles at a speed of
45mph.
Work out how long the journey lasts.

A bird flies for 5 hours at an average
speed of 19km/h.
Calculate how far the bird flies.

A helicopter flies 120 miles in
1 hour 30 minutes.
Calculate the average speed of the
helicopter.

Roger drives for 2 hours 45 minutes
at an average speed of 48mph.
How far does Roger drive?

A lorry travels 240 miles at an average speed of 50mph.
Calculate how long the journey lasts.
Give your answer in hours and minutes.

30 Days to Go
Video



Revision Card Numbers: 46, 47

Video Number: 384, 385

A piece of glass has a volume of 30cm^3
and a mass of 75g.
Calculate the density of the glass.

A glass paperweight has a mass of 420g
The density of the glass is 2.5g/cm^3
Find the volume of the paperweight.

Kylie has a solid glass cube.
The length of each side of the cube is 5cm
The density of the glass is 2.5g/cm^3
Find the mass of the cube.

A box exerts a force of 7200N on a table
The area of the base of the box is 400cm^2
Work out the pressure on the table.

A box is placed on the floor.
The area of the box in contact with the floor is 1.2m^2
The pressure exerted on the floor is 2800N/m^2
Work out the force exerted by the box on the floor.

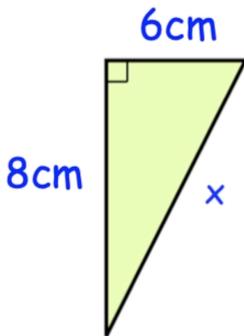
29 Days to Go
Video



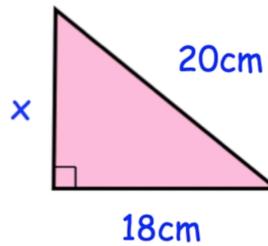
Revision Card Number: 76

Video Number: 257

Find x

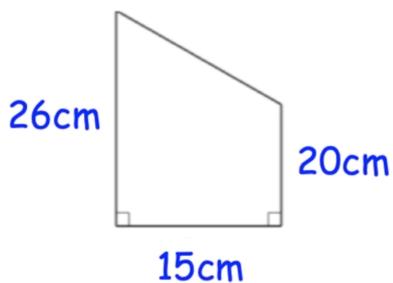


Find x



Alison draws a triangle with side lengths 8cm, 15cm and 17cm.
Is the triangle right angled?

Find the perimeter of the trapezium.

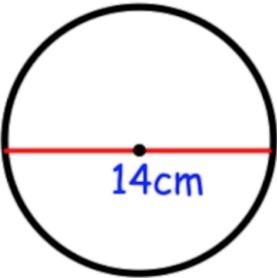


28 Days to Go Video

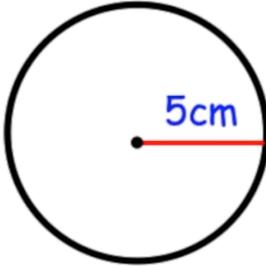


Revision Card Numbers: 17, 18
Video Numbers: 58, 60, 61

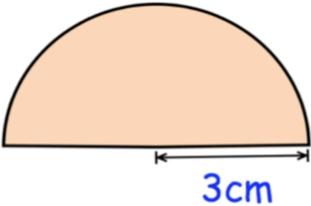
Find the circumference



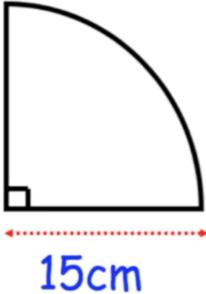
Find the circumference



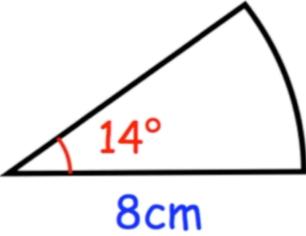
Find the perimeter



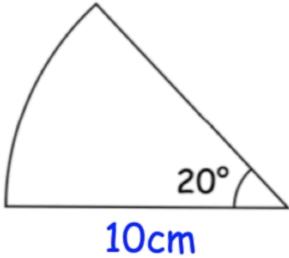
Find the perimeter



Find the perimeter



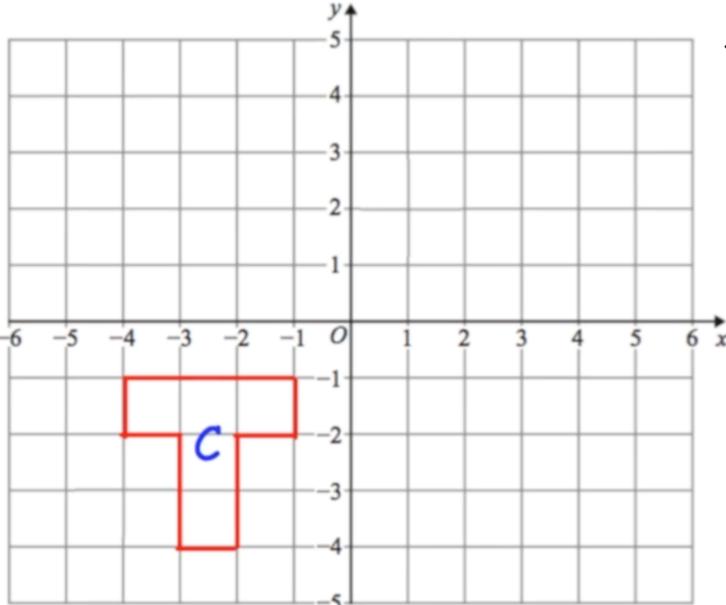
Find the perimeter



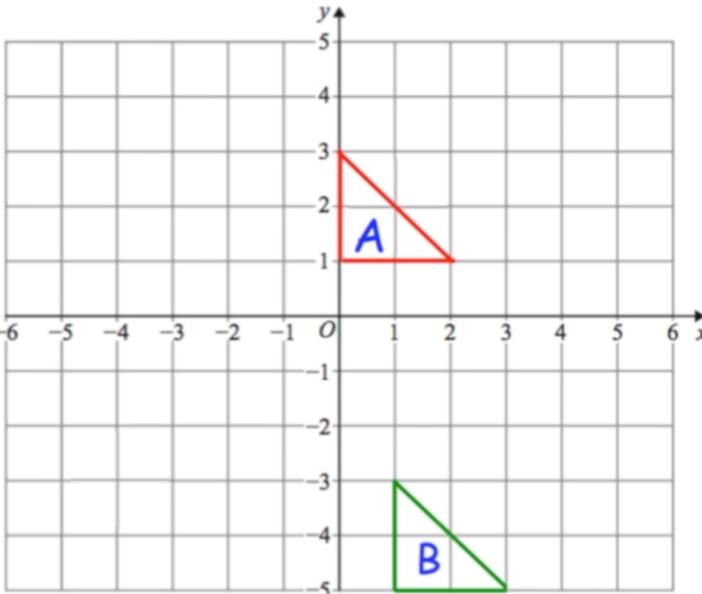
27 Days to Go
Video



Revision Card Numbers: 81, 83
Video Numbers: 272, 273, 274
325, 326

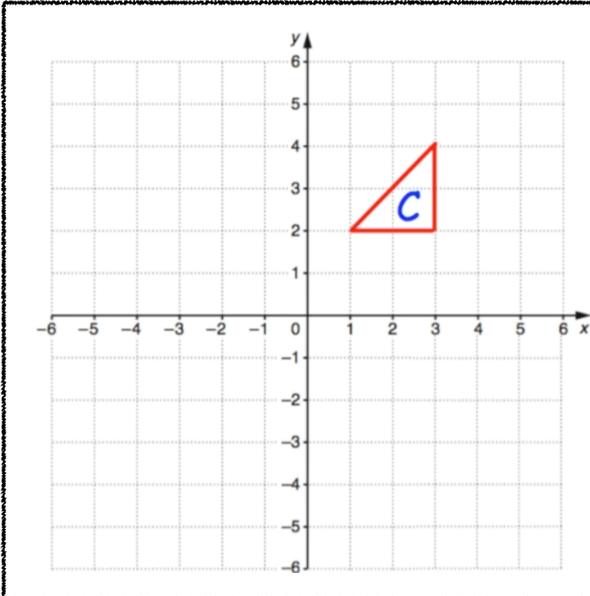


Translate C by $\begin{pmatrix} -1 \\ 4 \end{pmatrix}$



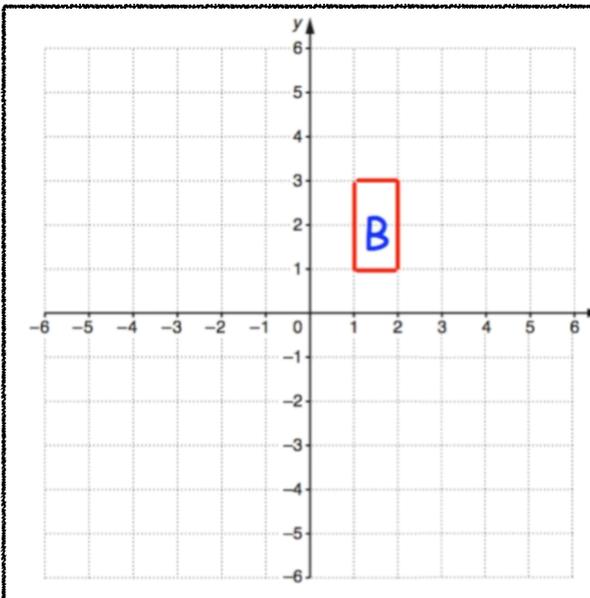
Describe fully the single transformation that maps A onto B.

Translations, Reflections

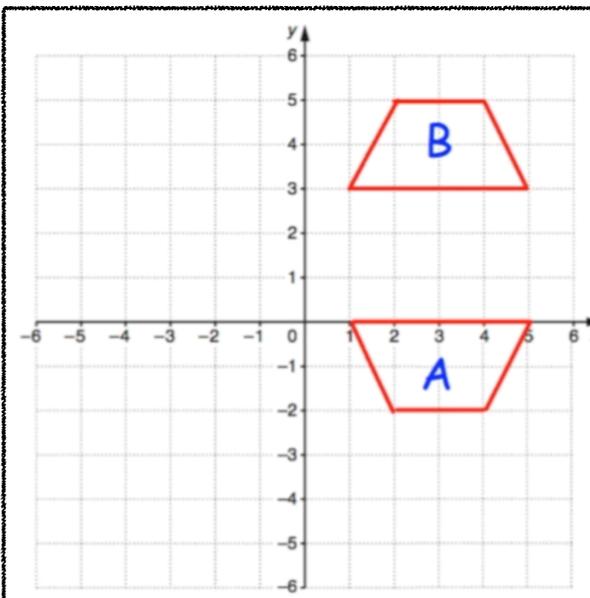


Reflect C in the line $x = -1$
Label the new triangle D

Reflect C in the line $y = 1$
Label the new triangle E



Reflect B in the line $y = -x$

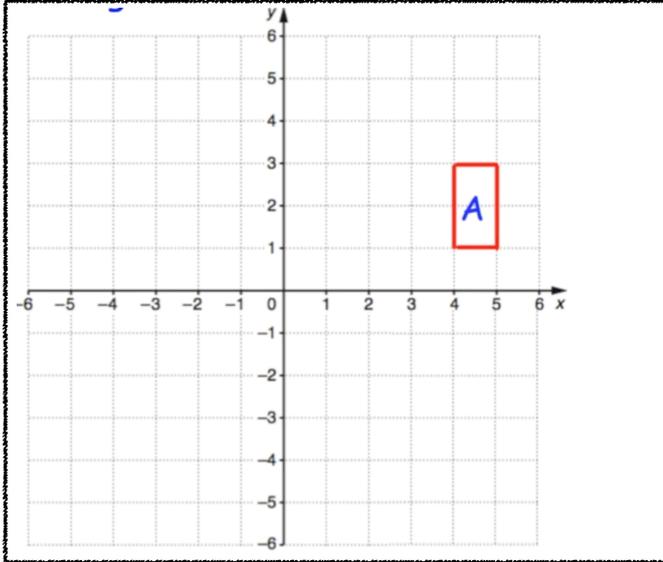


Describe fully the single transformation that maps A onto B .

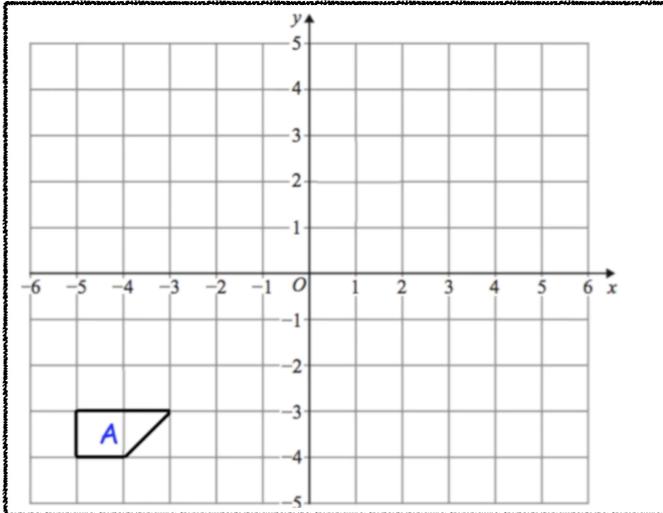
26 Days to Go
Video



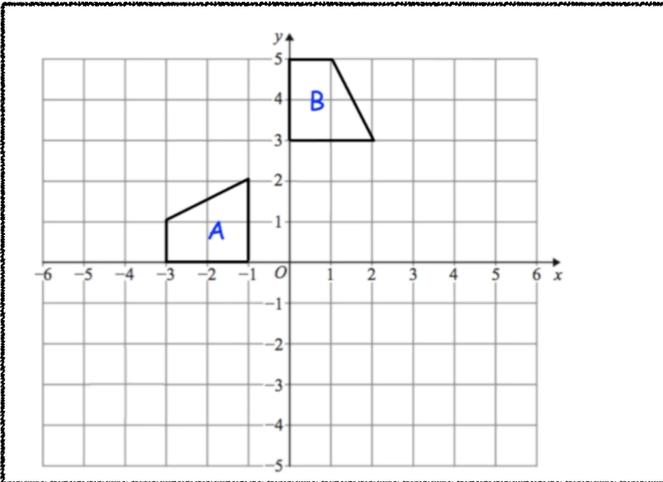
Revision Card Number: 82
Video Number: 275



Rotate A 90° anticlockwise about the point $(2, -1)$



Rotate A 180° about the point $(-1, -2)$

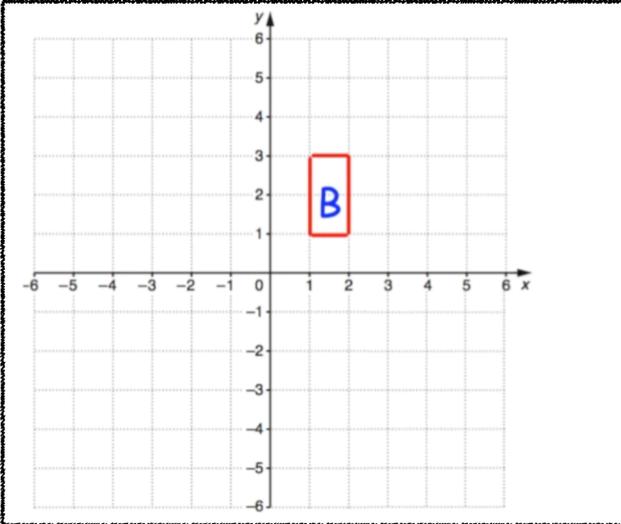


Describe fully the single transformation that maps B onto A.

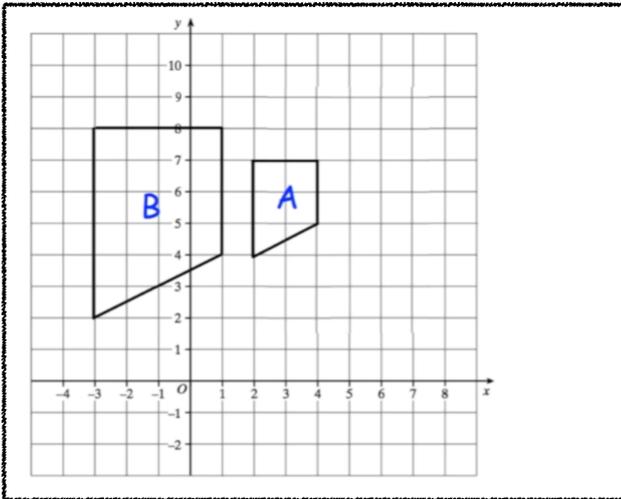
25 Days to Go
Video



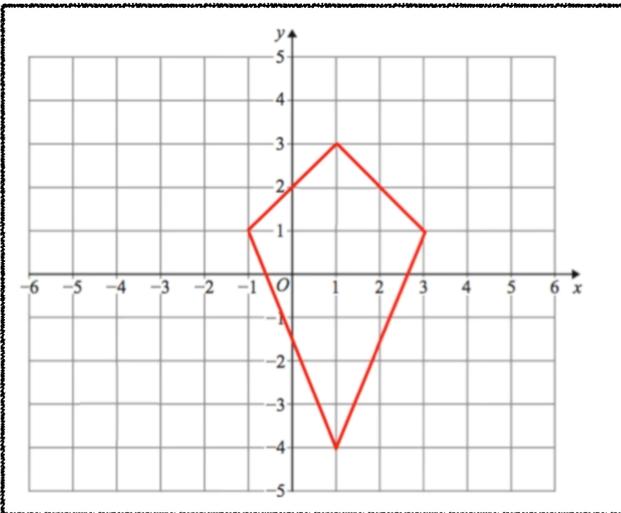
Revision Card Number: 84
Video Number: 104, 104a, 105



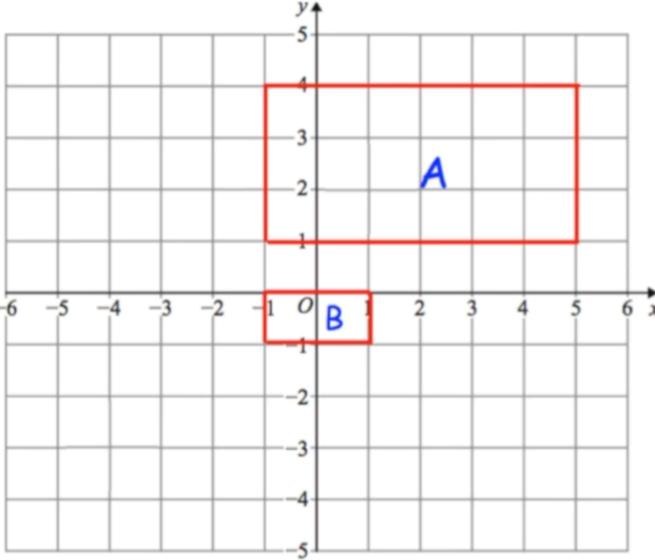
Enlarge B by scale factor 3 using (3, 4) as the centre of enlargement.



Describe fully the single transformation that maps A onto B.



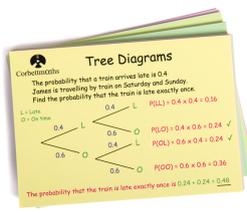
Enlarge by scale factor $\frac{1}{2}$ using (-5, -5) as the centre of enlargement.



Describe fully the single transformation that maps A onto B.

Useful Resources

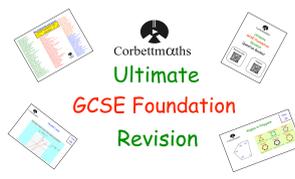
Revision Cards




Checklist



Ultimate Revision Video




5-a-day Books



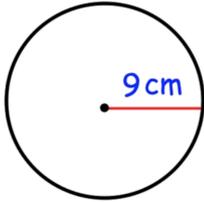

24 Days to Go
Video



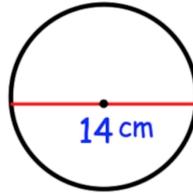
Revision Card Number: 19

Video Number: 40, 46

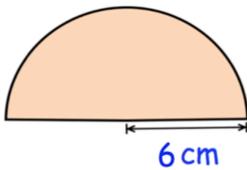
Find the area



Find the area



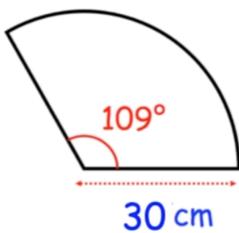
Find the area



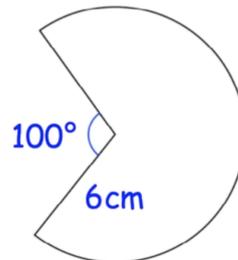
Find the area



Find the area



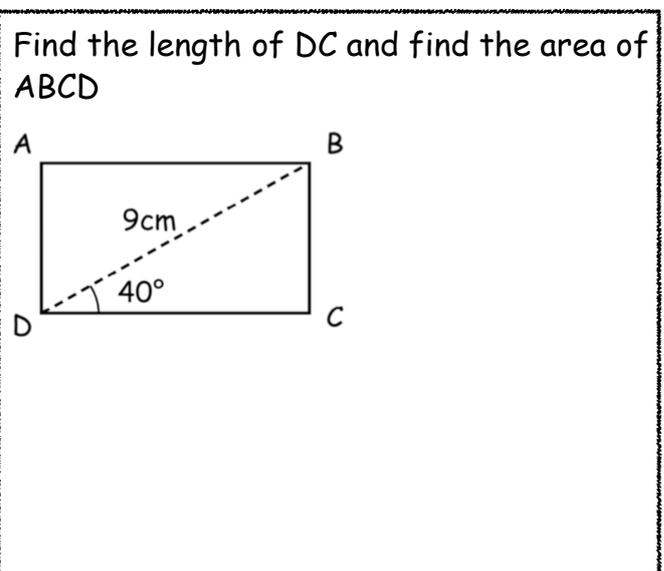
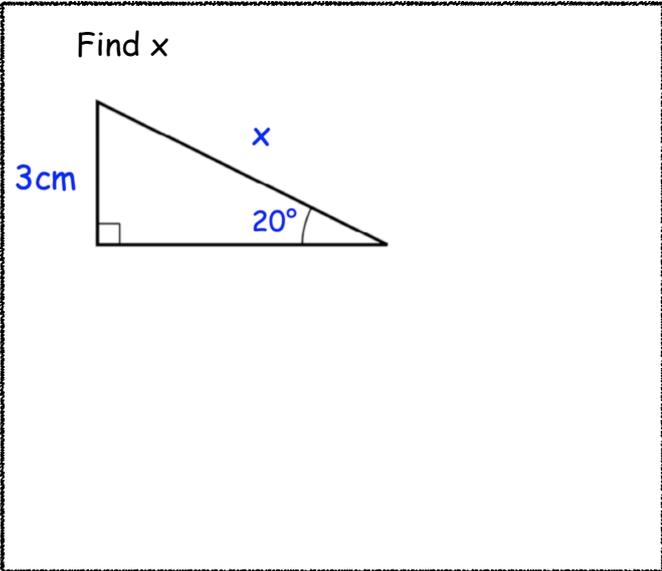
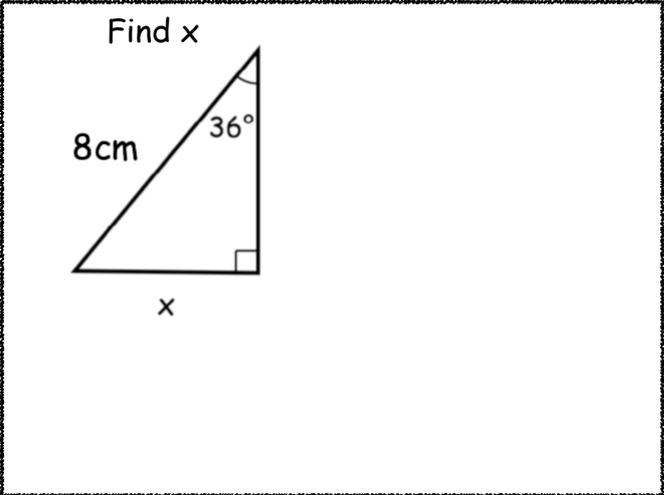
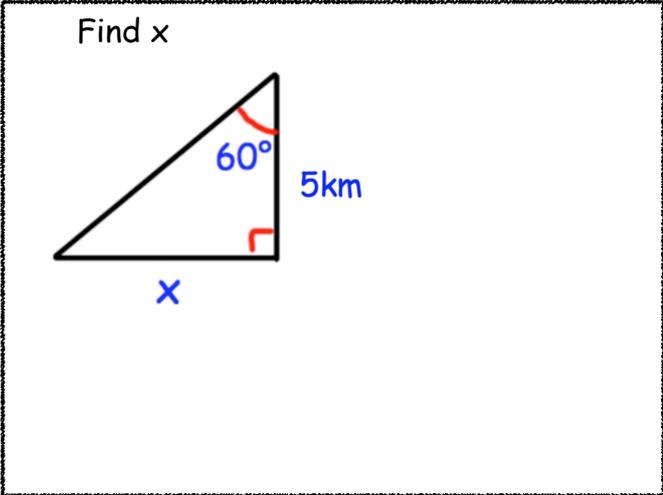
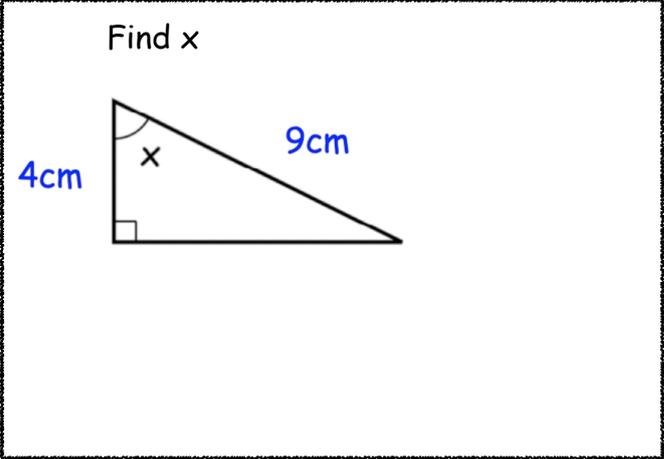
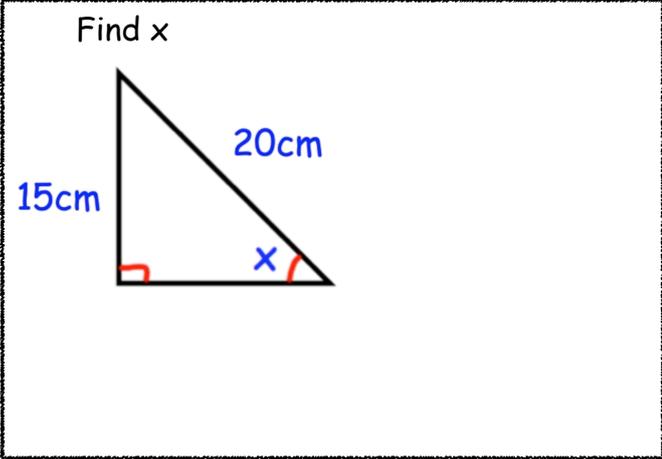
Find the area



23 Days to Go
Video



Revision Card Number: 85
Video Numbers: 329, 330, 331

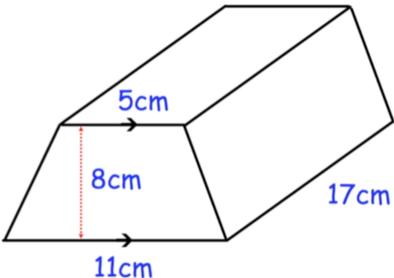


22 Days to Go Video

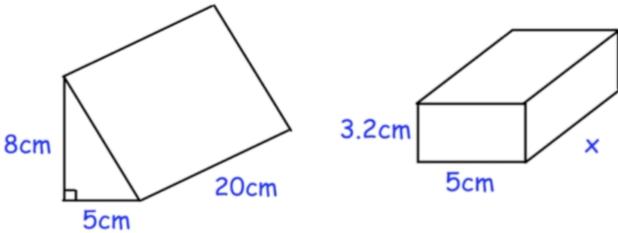


Revision Card Numbers: 87, 88, 89, 90
Video Numbers: 355, 356, 357

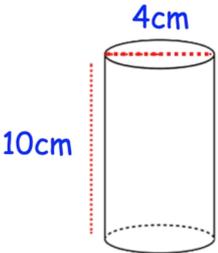
Work out the volume



The volumes of the two shapes are equal. Find x .

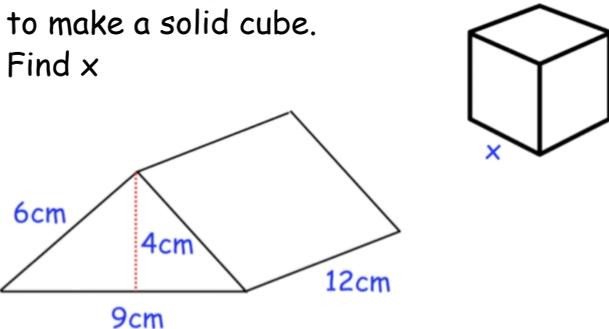
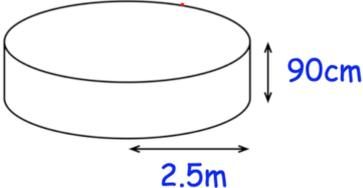


Work out the volume. Give your answer in terms of π

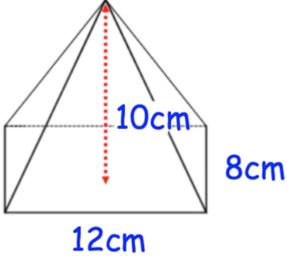


An empty paddling pool is filled at a rate of 3 litres per second. How long does it take to fill? Give your answer to the nearest minute.

A metal triangular prism is melted down to make a solid cube. Find x

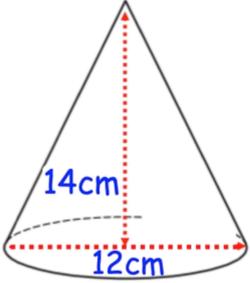



Find the volume



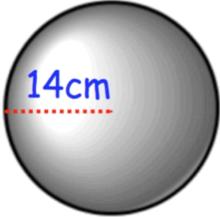
A square pyramid is shown with a vertical red dashed line representing its height, labeled 10cm. The base is a rectangle with a length of 12cm and a width of 8cm.

Find the volume



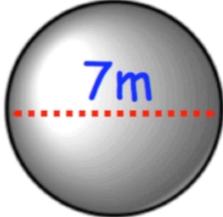
A cone is shown with a vertical red dashed line representing its height, labeled 14cm. The base is a circle with a radius of 12cm, indicated by a red dashed line from the center to the edge.

Find the volume of the sphere



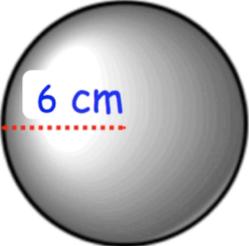
A sphere is shown with a horizontal red dashed line through its center representing its diameter, labeled 14cm.

Find the volume of the sphere



A sphere is shown with a horizontal red dashed line through its center representing its diameter, labeled 7m.

Find the volume of the sphere
Give your answer in terms of π



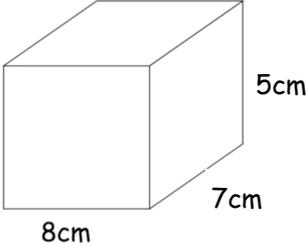
A sphere is shown with a horizontal red dashed line through its center representing its radius, labeled 6 cm.

21 Days to Go Video

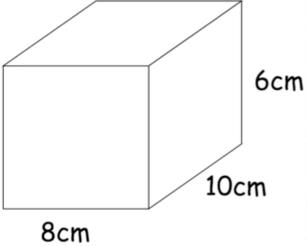


Revision Card Number: 91
Video Numbers: 310 to 315

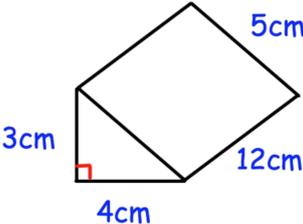
Find the surface area



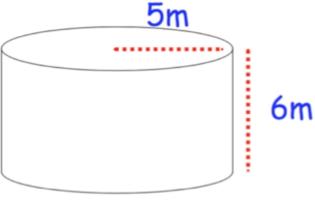
Find the surface area



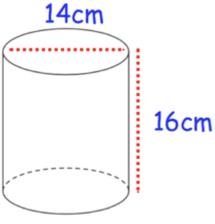
Find the surface area



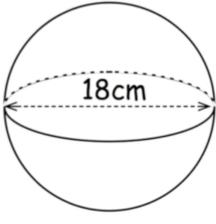
Find the surface area



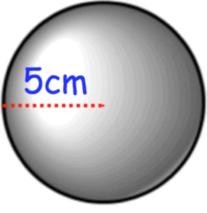
Find the surface area



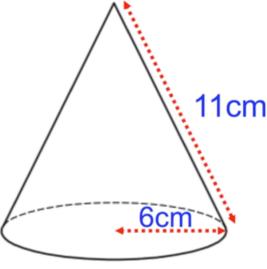
Find the surface area



Find the surface area



Find the surface area



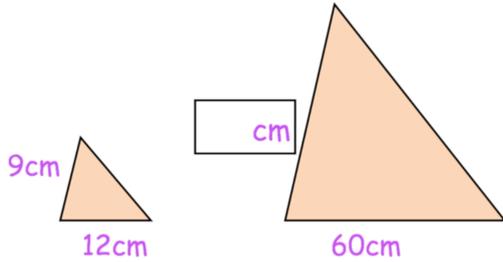
20 Days to Go
Video



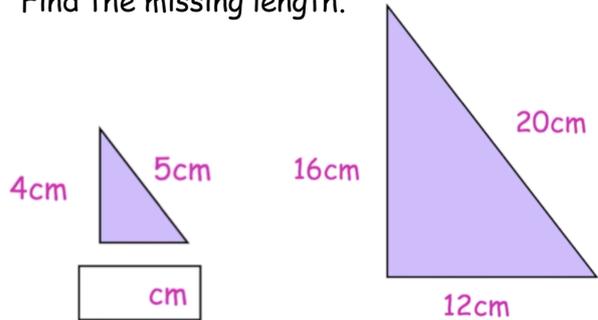
Revision Card Number: 33

Video Numbers: 66, 292

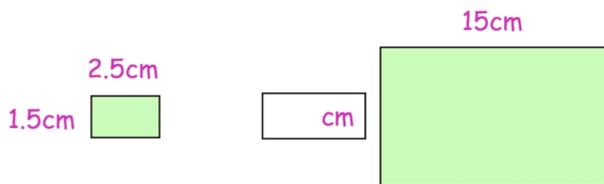
The triangles are similar.
Find the missing length.



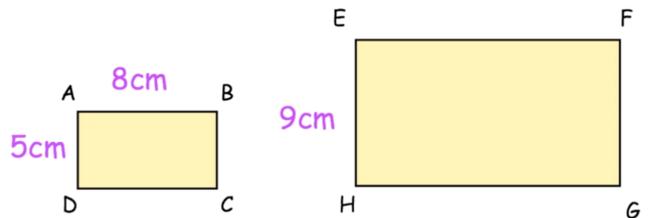
The triangles are similar.
Find the missing length.



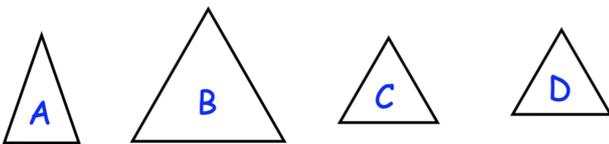
The rectangles are similar.
Find the missing length.



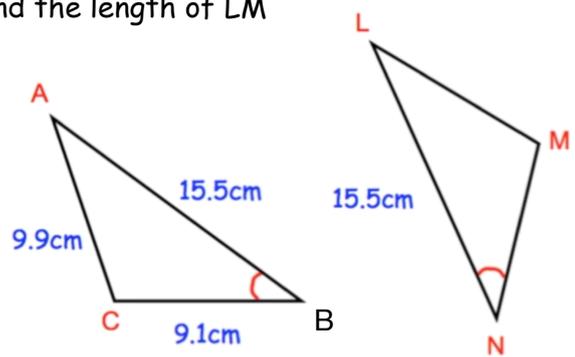
The rectangles are similar.
Find the length of EF.



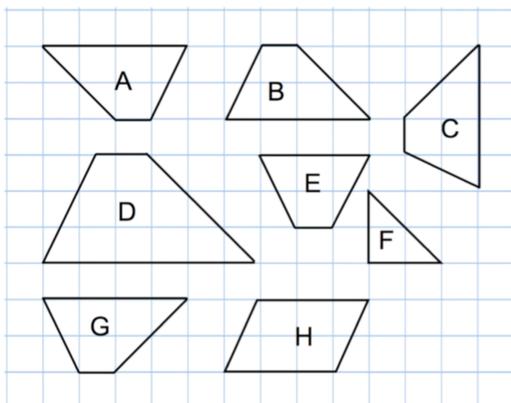
Circle the congruent triangles.



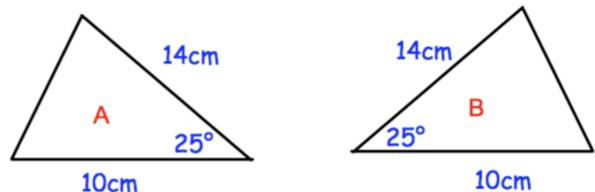
Triangles ABC and LMN are congruent.
Find the length of LM



Circle the congruent shapes.



Triangles A and B are congruent.
State the condition.



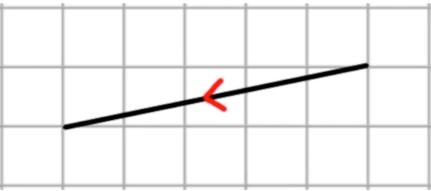
19 Days to Go
Video



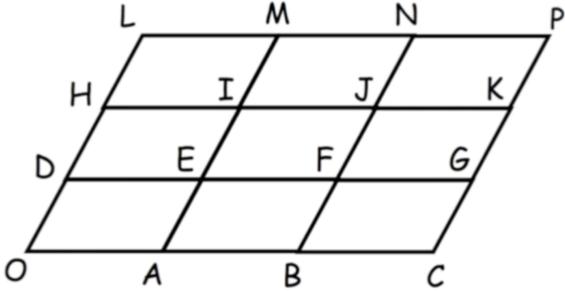
Revision Card Number: 92

Video Numbers: 353, 353a

Write as a column vector



()



$\vec{OA} = \mathbf{a}$ $\vec{OD} = \mathbf{b}$

Find

\vec{OG}

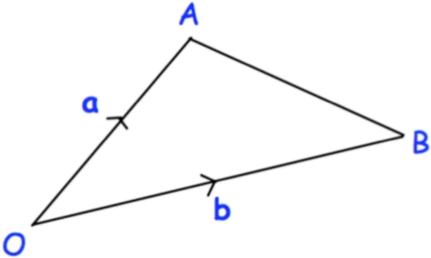
\vec{NA}

$\mathbf{a} = \begin{pmatrix} 8 \\ 6 \end{pmatrix}$ $\mathbf{b} = \begin{pmatrix} -2 \\ 1 \end{pmatrix}$

Find

$3\mathbf{b}$ $\mathbf{a} - \mathbf{b}$

$4\mathbf{a} + 2\mathbf{b}$



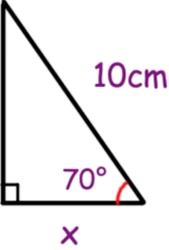
Write \vec{AB} in terms of \mathbf{a} and \mathbf{b}

18 Days to Go Video

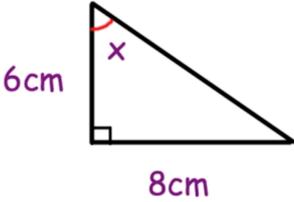


Revision Card Number: 86
Video Number: 341

Work out x 



Work out x 

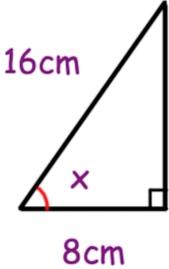


Write down the value of $\sin(30^\circ)$ 

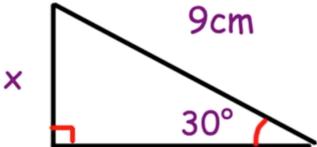
Write down the value of $\tan(45^\circ)$ 

Write down the value of $\cos(30^\circ)$ 

Work out x 



Work out x 

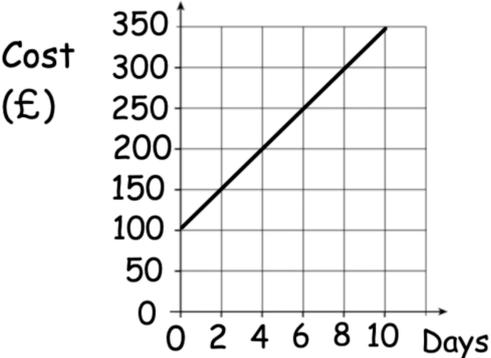


17 Days to Go
Video



Revision Card Numbers: 67, 68
Video Number: 171a

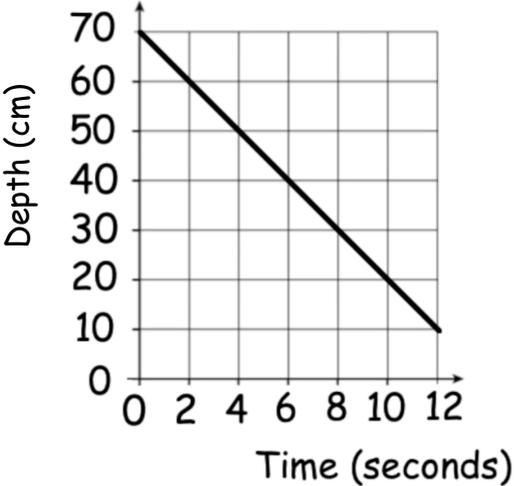
The graph shows the cost of hiring a hot-tub



Find the gradient of the graph.
Explain what the gradient represents.

The graph intersects the vertical axis at 100.
What does this represent?

Beth has a full paddling pool.
The graph shows the depth of water over time.



The graph intersects the vertical axis at 70.
What does this represent?

Find the gradient of the graph.
Explain what the gradient represents.

16 Days to Go
Video



Revision Card Number: 69

Video Number: 196

Circle the line parallel to $y = 8x - 2$

$y = 5x - 2$ $y = 8x + 1$ $y = 4x - 1$

Write down the gradient of a line
parallel to $y = 2x + 3$

Write down the equation of the line
parallel to $y = 3x + 1$ and passes through
(0, 7)

Write down the equation of the line
parallel to $y = -2x + 7$ and passes through
(0, 5)

Write down the equation of the line
parallel to $y = 4x + 9$ and passes through
(3, 5)

Write down the equation of the line
parallel to $y = 3x - 1$ and passes through
(4, 15)

Show $y = 4x - 1$ and $3y - 12x + 1 = 0$ are parallel.

15 Days to Go
Practice Paper
Hints



14 Days to Go
Practice Paper
Answers



GCSE Foundation Practice Paper

Scan here for the question paper



- | | |
|---|--|
| Q1: Factors - 97 Days to Go | Q40: Volume of a Prism - 22 Days to Go |
| Q2: Cube Numbers - 96 Days to Go | Q41: Circumference - 28 Days to Go |
| Q3: Product of Primes & LCM - 53 Days to Go | Q42: Trigonometry - 23 Days to Go |
| Q4: Expressing as a Fraction or % - 49 Days to Go | Q43: Column Vectors - 19 Days to Go |
| Q5: Recipes - 43 Days to Go | Q44: Error Intervals - 40 Days to Go |
| Q6: Coordinates - 70 Days to Go | Q45: Use of a Calculator - 39 Days to Go |
| Q7: Forming Expressions - 69 Days to Go | Q46: Area of a Circle - 24 Days to Go |
| Q8: Translations - 27 Days to Go | Q47: Exact Trig Values - 18 Days to Go |
| Q9: Median and Mean - 86 Days to Go | Q48: Pythagoras - 29 Days to Go |
| Q10: Rounding - 99 Days to Go | Q49: Area of a Trapezium - 73 Days to Go |
| Q11: Order of Operations - 98 Days to Go | Q50: Best Buys - 41 Days to Go |
| Q12: Adding Fractions - 93 Days to Go | Q51: Laws of Indices - 68 Days to Go |
| Q13: Multiplying Fractions - 92 Days to Go | Q52: Pie Charts - 88 Days to Go |
| Q14: Percentages of Amounts - 50 Days to Go | Q53: Bearings - 77 Days to Go |
| Q15: Ratio - 48 Days to Go | Q54: Parallel Lines - 16 Days to Go |
| Q16: Substitution - 61 Days to Go | Q55: Forming Equations - 13 Days to Go |
| Q17: Probability - 83 Days to Go | Q56: Simultaneous Equations - 57 Days to Go |
| Q18: Scatter Graphs - 87 Days to Go | Q57: Quadratic Graphs - 56 Days to Go |
| Q19: Frequency Trees - 90 Days to Go | Q58: Congruent Triangles - 20 Days to Go |
| Q20: Angles in Polygons - 78 Days to Go | Q59: Rotations - 26 Days to Go |
| Q21: Speed - 31 Days to Go | Q60: Fractions of Amounts - 94 Days to Go |
| Q22: Estimated Mean - 84 Days to Go | Q61: Equivalent Fractions, Decimals, % - 91 Days to Go |
| Q23: Drawing Linear Graphs - 60 Days to Go | Q62: Pictograms - 89 Days to Go |
| Q24: Reverse Percentages - 44 Days to Go | Q63: Listing Outcomes - 82 Days to Go |
| Q25: Percentage Change - 47 Days to Go | Q64: Tree Diagrams - 81 Days to Go |
| Q26: Negative Indices - 52 Days to Go | Q65: Missing Angles - 80 Days to Go |
| Q27: Expanding Brackets - 63 Days to Go | Q66: Edges, Faces, Vertices - 75 Days to Go |
| Q28: Equations - 67 Days to Go | Q67: Area of a Triangle - 74 Days to Go |
| Q29: The nth Terms - 11 Days to Go | Q68: Symmetry - 72 Days to Go |
| Q30: Factorisation - 64 Days to Go | Q69: Views - 71 Days to Go |
| Q31: Factorising Quadratics - 62 Days to Go | Q70: Money - 8 Days to Go |
| Q32: Inequalities - 12 Days to Go | Q71: Conversion Graphs - 10 Days to Go |
| Q33: Equation of a Line - 59 Days to Go | Q72: Enlargements - 25 Days to Go |
| Q34: Compound Interest - 45 Days to Go | Q73: Combined Mean - 33 Days to Go |
| Q35: Standard Form - 51 Days to Go | Q74: Venn Diagrams - 34 Days to Go |
| Q36: Angles in Parallel Lines - 79 Days to Go | Q75: Units - 38 Days to Go |
| Q37: Constructions - 76 Days to Go | Q76: Timetables - 37 Days to Go |
| Q38: Surface Area - 21 Days to Go | Q77: Negative Numbers - 42 Days to Go |
| Q39: Density - 30 Days to Go | Q78: Changing the Subject - 58 Days to Go |

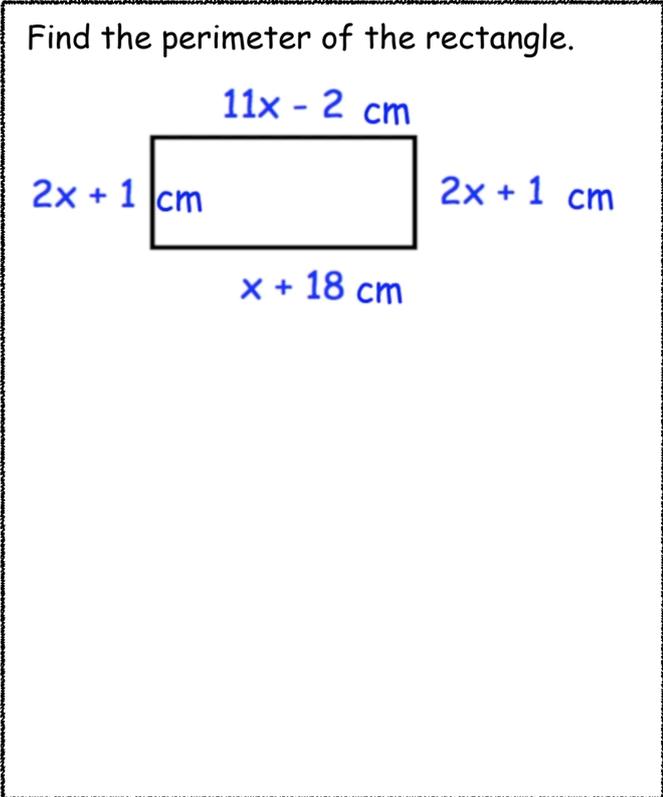
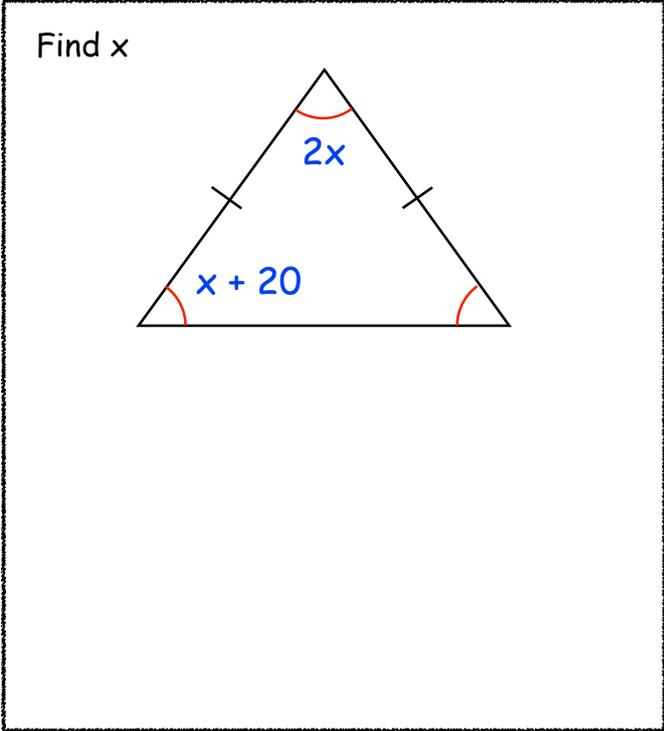
13 Days to Go
Video



Revision Card Number: 55
Video Number: 115

Daniel is x years old.
Daisy is 5 years older than Daniel.
Chris is twice Daniel's age.
The sum of their ages is 53

Form and solve an equation to find Daniel's age.



Andy has x pence.
Kelly has 7 pence more than Andy.
Georgia has 9 pence less than Andy.
The total amount of money they have is £1.48
Work out how much money Georgia has.

12 Days to Go
Video



Video Numbers: 176 to 178

Solve $x - 7 < 20$

Solve $\frac{x}{3} \geq 6$

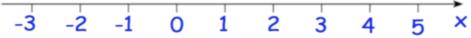
Solve $5x > 65$

Solve $3x - 4 \leq 32$

Solve $8x + 1 < 10x - 9$

Solve $7 - x > 11$

Solve $2x - 1 < 7$ and show your answer on a number line.



Show on a number line.

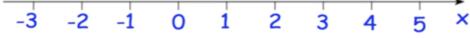
$x < 4$



$x > -2$



$x \geq 2$



$x \leq 1$



List all the integers that satisfy the inequality $1 < 2n + 4 < 10$

11 Days to Go
Video



Revision Card Number: 75

Video Number: 288

Find the nth term of: 7, 11, 15, 19 ...

Find the nth term of: 1, 8, 15, 22 ...

Find the nth term of: 40, 31, 22, 13 ...

Find the nth term of: -4, -1, 2, 5 ...

Find the 50th term of: 8, 14, 20, 26 ...

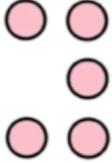
Find the 100th term of: 7.5, 9, 10.5, 12 ...

The nth term of a sequence is $19n + 5$
Write down the first four terms

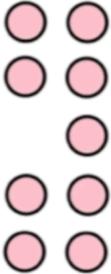
The nth term of a sequence is $4n + 7$
Which term of the sequence is equal to 95?

The nth term of a sequence is $12n - 40$
Which term of the sequence is equal to 68?

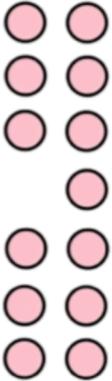
14, 22, 30, 38 ...
Is 426 a term in the sequence?



pattern
number 1



pattern
number 2



pattern
number 3

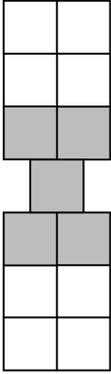
Find an expression, in terms of n , for the number of discs in pattern number n .

Can Jay make a pattern with exactly 251 discs?

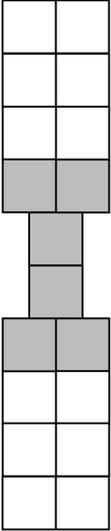
Which statements below are true?



Pattern 1



Pattern 2



Pattern 3

A: Pattern 20 has 23 shaded squares

B: The number of shaded squares is always even

C: Pattern 12 has 62 squares in total

D: Every pattern has more white than shaded squares.

E: Pattern 15 has 60 white squares.

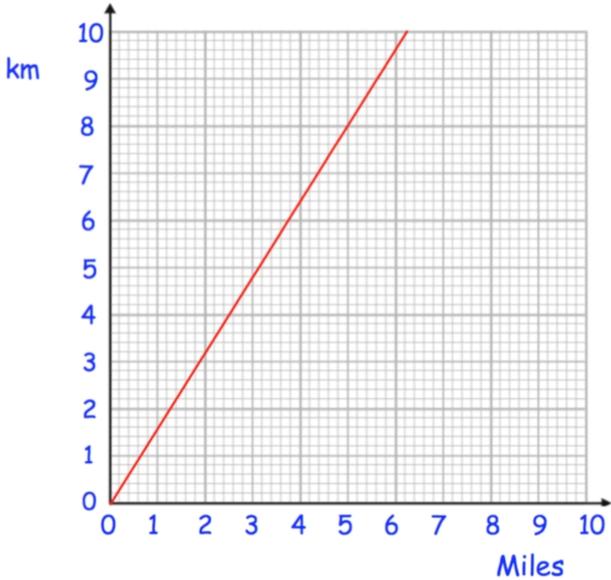
F: The number of shaded squares in Pattern 26 is a prime number

10 Days to Go Video



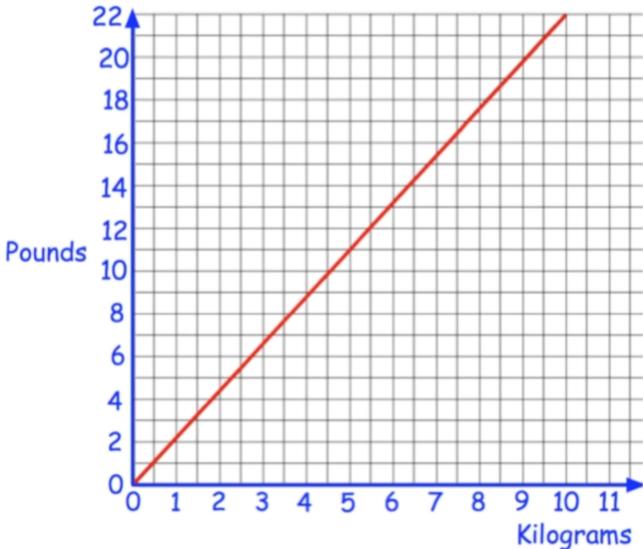
Video Numbers: 151, 152

Convert 5 miles into kilometres



Convert 4km into miles

Change 5kg into pounds

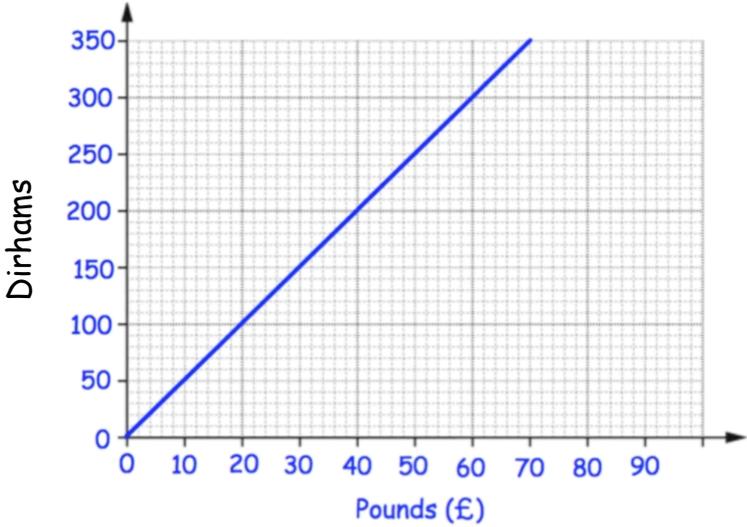


Change 17 pounds into kg

Change 40kg into pounds

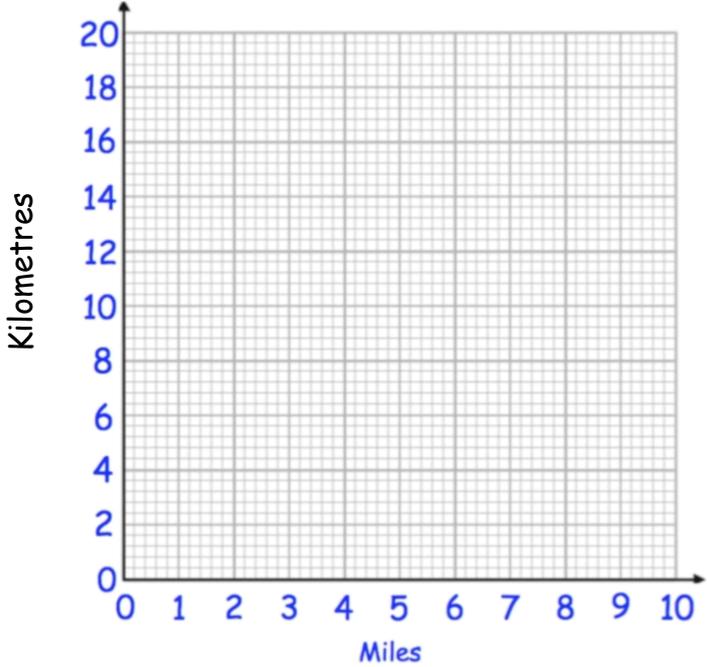
Conversion Graphs

A camera costs 850 Dirhams.
How much is this in pounds (£)?



5 miles is approximately 8km

Draw a conversion graph.



9 Days to Go
Video



Video Numbers: 6, 98,
200, 304

A lorry can safely transport 2 tonnes of goods.
Florence is loading the lorry with washing machines, ovens and microwaves.

Can Florence safely load the lorry with the following items?

8 washing machines, each weighing 85kg.

12 ovens, each weighing 75kg.

22 microwaves, each weighing 20kg.

Orla is planning a trip for her friends.

Here are the costs for the trip.

Entry fee £17 per person

Transport £320

Insurance £90

Other costs £80

Orla charges £21 per person for the trip.

100 people go on the trip.

Has Orla collected enough money to pay for all the costs of the trip?

Edward and his four friends go on holiday. The total cost of the holiday is £3600.

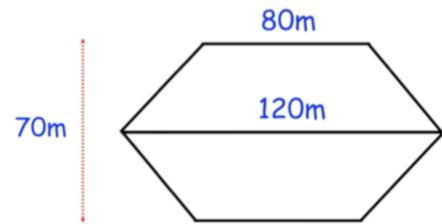
Edward is going to stay longer than his friends and he is going to pay 35% of the total cost.

The rest of the total cost is to be shared equally between his four friends.

Edward says, "I pay twice as much money for the holiday than each of my friends."

Is Edward correct?

A farmer owns two identical fields.
 Each field is a trapezium.
 The farmer is going to plant a crop.
 Each 8 kilogram bag of seed costs £19.99
 60g of seed covers an area of 1m^2
 The farmer has £1100 to spend on seed.
 Has the farmer got enough money to buy all the seed he needs to cover both fields?



An adult ticket for a museum is £16.00
 A child ticket costs 70% of the price of an adult ticket.
 Mrs Jenkins and her three children go to the museum.
 Mrs Jenkins has a voucher that reduces the total entry cost by 10%
 Mrs Jenkins pays with three £20 notes.
 Work out how much change Mrs Jenkins will receive.

Some people went to a football match.
 The ratio of the number of children to the number of adults was 2:9
 Each person stood in the terraces or had a seat in the stand.
 $\frac{2}{5}$ of the children stood in the terraces.
 24 of the children sat in the stand.
 There are exactly 250 seats in the stand.
 Were there people on more than 85% of the seats?

8 Days to Go
Video



Video Numbers: 400a to 400s

A shop sells pencils for 40p each.
Work out the greatest number of pencils
that can be bought for £9

Teagan buys a sandwich and drink for £7.24
She pays with £10 and receives exactly
five coins change.
List the coins.

A tray of 20 doughnuts costs £10.
Charlotte buys 8 trays of doughnuts.
She sells 110 of the doughnuts for 90p each.
She sells the rest at half price.
Work out how much profit Charlotte made.

A holiday costs £1670
Lorenzo pays a deposit of £250 and the rest
of the cost in 8 equal monthly payments.
Work out the amount of each monthly
payment.

Tim sold: 87 cupcakes at 80p each
62 flapjacks at £1.50 each and 44 doughnuts
In total Tim made £211.
Work out the price of each doughnut.

Jasmine buys 6kg of apples and 5kg of
oranges. The total price is £28.20
The apples cost £2.70 per kg.
Work out the cost of 1kg of oranges.

7 Days to Go
Video



Revision Card Number: 78

Video Numbers: 269 to 271

Write down the ratio of the total number of gold medals won to the total number of bronze medals won.

Country	Gold	Silver	Bronze	Total
Spain	7	4	6	17
France	10	18	14	42
Germany	17	10	15	42
Italy	8	12	8	28
Japan	12	8	21	41
Australia	8	11	10	29

There are between 30 and 40 sweets in a bag.
Ben and Daisy share them in the ratio 3:8
There are no sweets remaining in the bag.

How many sweets were in the bag to begin with?

36 people buy a coffee.

A regular coffee costs £2.50

A large coffee costs £3

The ratio of regular coffees to large coffees sold was 2:7

Work out the total amount of money spent on coffee.

The sizes of the interior angles of a quadrilateral are in the ratio 3:4:5:8

Calculate the size of the largest angle.

Isaac & Victoria share money in the ratio 2:5
Victoria receives £120

Work out the difference between how much money Isaac and Victoria receive.

Alex is 12 years older than George.
Carl is three times older than Alex
The sum of their ages is 68

Find the ratio of George's age to Carl's age to Alex's age.

The ratio of red beads to yellow beads is 3:8
The ratio of yellow beads to blue beads is 6:7

Work out what fraction of the beads are red.

Approach to Paper 1

6 Days to Go
Final Push



5 Days to Go
Number Recap



4 Days to Go
Stats Recap



3 Days to Go
Algebra Recap



2 Days to Go
Shape Recap

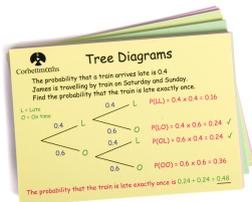


1 Day to Go
Final Tips



Useful Resources

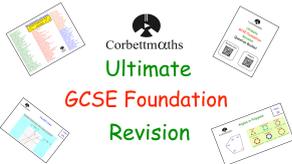
Revision Cards



Checklist



Ultimate Revision Video



5-a-day Books



A large empty rectangular box for taking notes.