Calculator Foundation + GCSE Revision

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Use your calculator to work out $3\frac{1}{2} \times 7\frac{2}{5}$.	Mike and Connor share £1080 in the ratio 4 : 8. How much does Mike get?	Solve $3x + 10 = 31$.	Write 7% as a decimal.
Increase £43 by 16%.	Shape A is transformed to give Shape B. Describe the transformation.	Plot the graph of $y = x - 1$ on the grid below.	
Find the missing length. 36 45 ?			
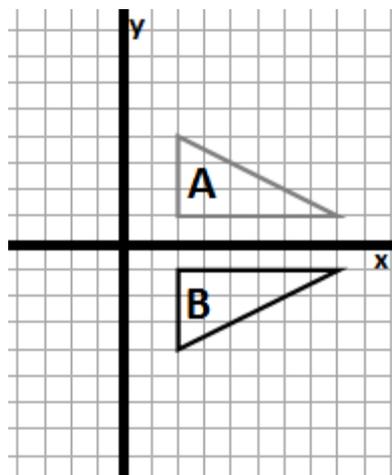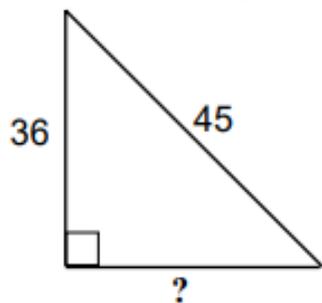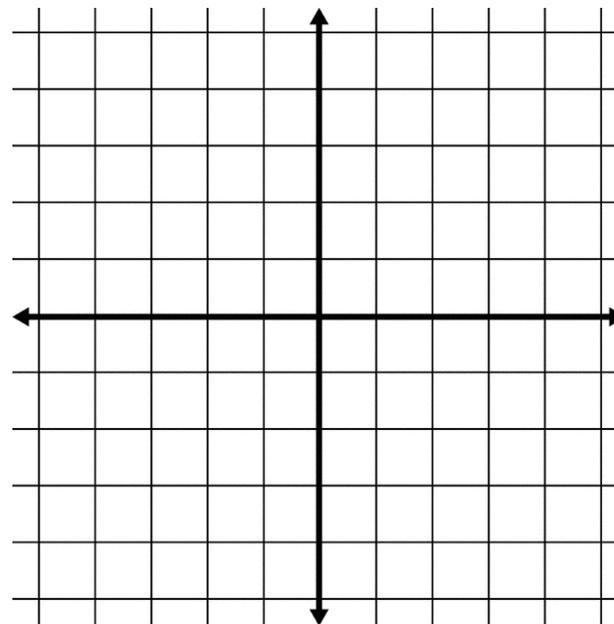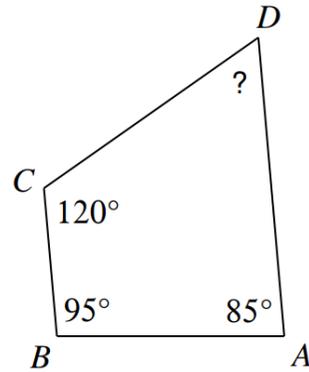
Work out the marked angle.	Make r the subject of the formula $C = 2\pi r$.

Work out $13 + 2 \times \sqrt[3]{64}$.
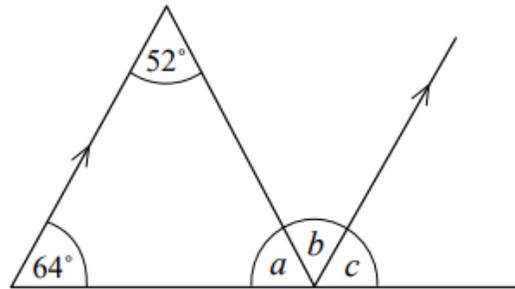
Work out the size of angles a, b and c.	A circle has area $40cm^2$. Find its diameter. Round your answer to two decimal places.
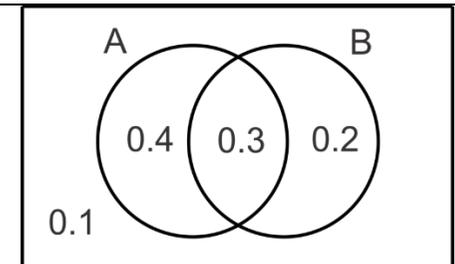
a) Find $P(A \cup B)$.

b) Find $P(A')$.

When $a = -3$, find the value of $5a^2 - 2a$.

Jo and Dan share sweets in the ratio 10 : 4. Jo has 18 more sweets than Dan. How many sweets does Dan have?

There are four types of chocolate in a box: strawberry, orange, hazelnut and mint. A chocolate is picked at random. The probabilities are shown in the table below. Find the value of x.

Type	Strawberry	Orange	Hazelnut	Mint
Probability	0.3	x	x	0.2

Triangle DEF is similar to triangle ABC. What's the length of side DF?

The two way table shows how a group of 100 pupils get to school. Complete the two way table then fill in the frequency tree.

	Year 7	Year 8	Total
Walk		34	
Bike	31		
Total		44	100

Super Squash costs £15 for 6 bottles and Fab Fizz costs £18 for 8 bottles. Which is better value for money?

Are the following numbers prime?

a) 27

b) 51

c) 127
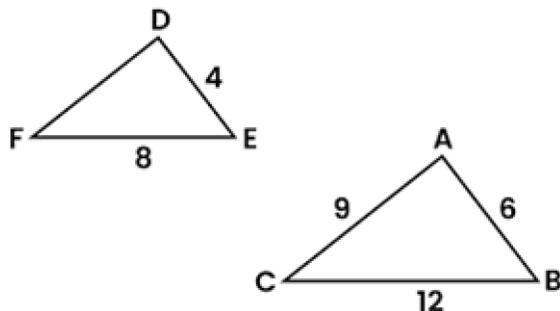
a) Estimate:

$$\frac{43.1 \times \sqrt{96.3}}{2.38^2}$$

b) Use your calculator to work out:

$$\frac{43.1 \times \sqrt{96.3}}{2.38^2}$$

Round your answer to 2 decimal places.
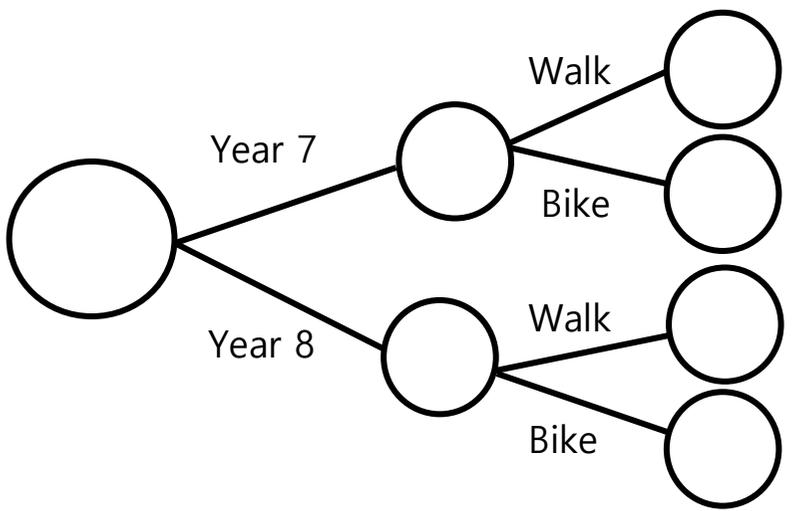
Find the midpoint of $(-3, 5)$ and $(7, 10)$.
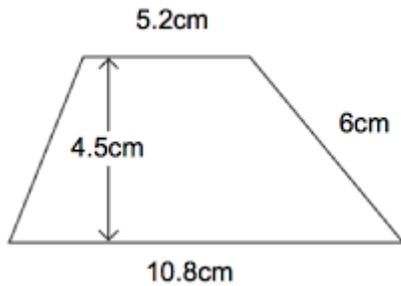
Work out the area of the trapezium.	Use your calculator to work out $6.12 \times 10^7 \div 4.8 \times 10^2$. Answer in standard form.	A cockroach moves at 85 cm per second. What's that in kilometres per hour?	What's the exterior angle of a regular decagon?

5.2cm

6cm

4.5cm

10.8cm

	I bought a scarf in the sale. It was marked as 30% off. It cost me £10.50. What was the original price?	The cost of a jacket increases by £5. The new price is £85. Find the percentage increase.	Solve these simultaneous equations. $3x + 5y = 31$ $10x - y = 15$

Find the marked angle.

?

4

6.7
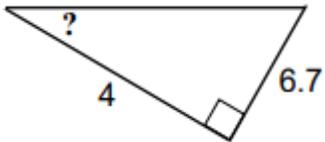
Given that £1 = $1.30, how much is $200 worth in pounds?

Find the gradient of the line joining $(-3, 5)$ and $(7, 10)$.

Calculator Foundation + GCSE Revision - **ANSWERS**

Use your calculator to work out $3\frac{1}{2} \times 7\frac{2}{5}$. $25\frac{9}{10}$ oe	Mike and Connor share £1080 in the ratio 4 : 8. How much does Mike get? £360	Solve $3x + 10 = 31$. $x = 7$	Write 7% as a decimal. 0.07

Increase £43 by 16%. £49.88	Shape A is transformed to give Shape B. Describe the transformation.	Plot the graph of $y = x - 1$ on the grid below.

Find the missing length.

36   45

?

27
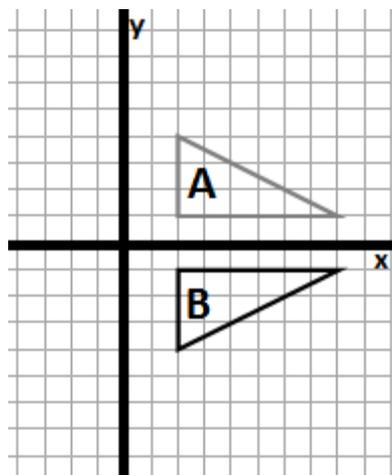
Reflection in the x-axis (or reflection in the line $y = 0$)
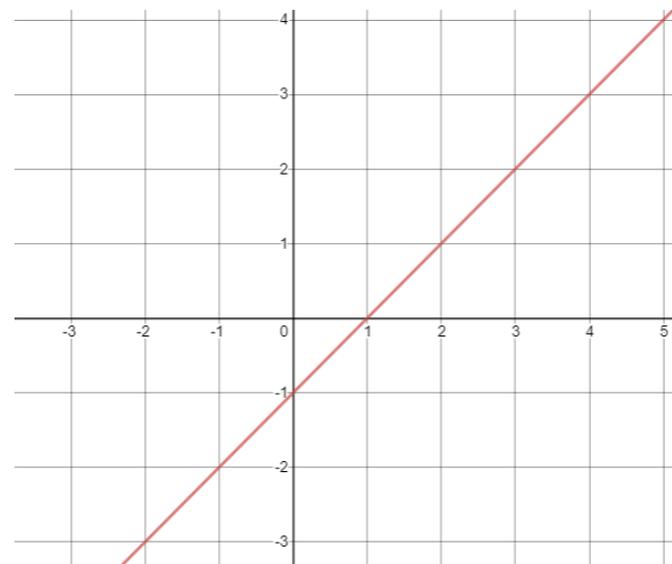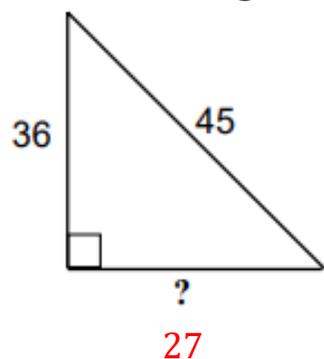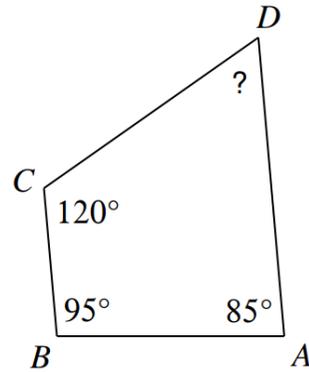
Work out the marked angle.	Make r the subject of the formula $C = 2\pi r$.	Work out $13 + 2 \times \sqrt[3]{64}$.
60° 	$r = \dfrac{C}{2\pi}$	21
Work out the size of angles a, b and c. $a = 64^o$ $b = 52^o$ $c = 64^o$ 	A circle has area $40cm^2$. Find its diameter. Round your answer to two decimal places. $7.14cm$	 a) Find $P(A \cup B)$. 0.9 b) Find $P(A')$. 0.3
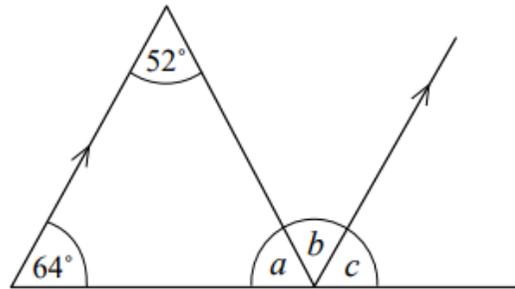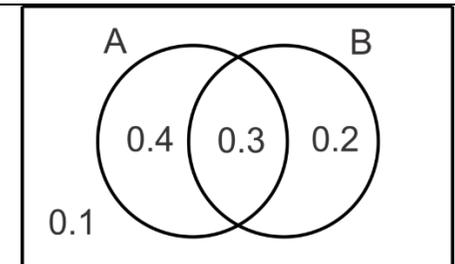
When $a = -3$, find the value of $5a^2 - 2a$. 51	Jo and Dan share sweets in the ratio $10 : 4$. Jo has 18 more sweets than Dan. How many sweets does Dan have? 12	There are four types of chocolate in a box: strawberry, orange, hazelnut and mint. A chocolate is picked at random. The probabilities are shown in the table below. Find the value of x. $x = 0.25$

Type	Strawberry	Orange	Hazelnut	Mint
Probability	0.3	x	x	0.2

Triangle DEF is similar to triangle ABC. What's the length of side DF?

6

The two way table shows how a group of 100 pupils get to school. Complete the two way table then fill in the frequency tree.

	Year 7	Year 8	Total
Walk	25	34	59
Bike	31	10	41
Total	56	44	100
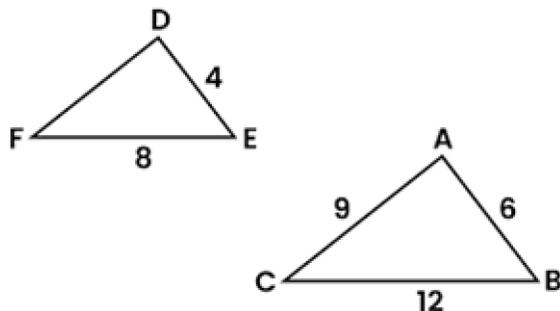
Super Squash costs £15 for 6 bottles and Fab Fizz costs £18 for 8 bottles. Which is better value for money?

SS £2.50 | FF £2.25

Fab Fizz is best value
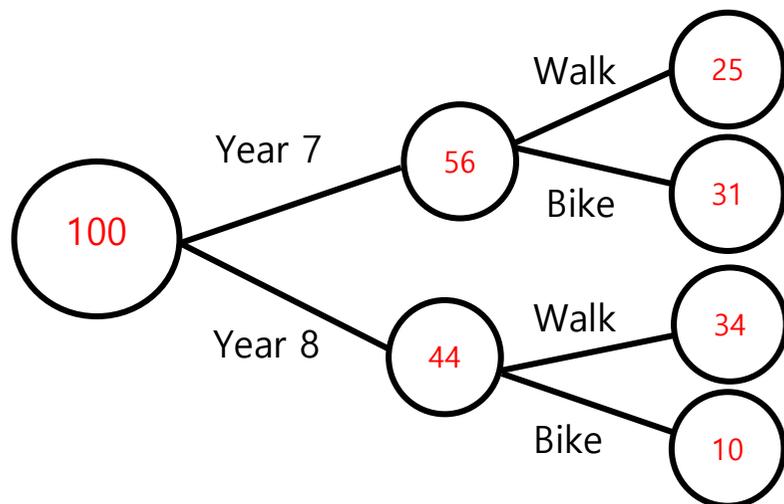
Are the following numbers prime?

(Could use FACT button on calculator to do this)

a) 27   No

b) 51   No

c) 127   Yes

a) Estimate:

$$\frac{43.1 \times \sqrt{96.3}}{2.38^2}$$

100

b) Use your calculator to work out:

$$\frac{43.1 \times \sqrt{96.3}}{2.38^2}$$

Round your answer to 2 decimal places.

74.67

Find the midpoint of $(-3, 5)$ and $(7, 10)$.

$(2, 7.5)$

Work out the area of the trapezium. 5.2cm 4.5cm 6cm 10.8cm $36cm^2$	Use your calculator to work out $6.12 \times 10^7 \div 4.8 \times 10^2$. Answer in standard form. 1.275×10^5	A cockroach moves at 85 cm per second. What's that in kilometres per hour? $3.06km/h$	What's the exterior angle of a regular decagon? 36°
	I bought a scarf in the sale. It was marked as 30% off. It cost me £10.50. What was the original price? £15	The cost of a jacket increases by £5. The new price is £85. Find the percentage increase. 6.25%	Solve these simultaneous equations. $3x + 5y = 31$ $10x - y = 15$ $x = 2, y = 5$
Find the marked angle. ? 4 6.7 59.2^o	Given that £1 = $1.30, how much is $200 worth in pounds? £153.85	Find the gradient of the line joining $(-3, 5)$ and $(7, 10)$. $\frac{1}{2}$	
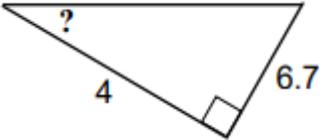
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