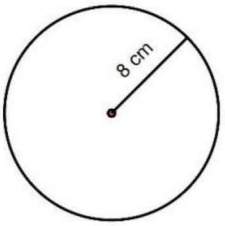
Using a Calculator

$$\frac{\sqrt{20.4}}{6.2 \times 0.48}$$

Solve and write down all the numbers on your calculator.

Then round to 1dp.

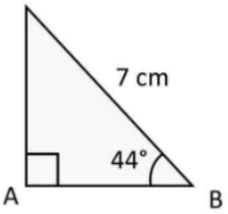
Area and Circumference



Area =
Circumference =

Give your answers to 2 significant figures

Trigonometry



Find the length of AB to 1dp

Reverse Percentages

In a sale, normal prices are reduced by 25%.

The sale price of a jumper is £12.75.

Calculate the normal price of the jumper.

Quadratic Graph

Complete the table for

$y = x^2 - 2x - 4$

x	-2	-1	0	1	2
y					

Compound Interest

John invests £3000 at 4% compound interest for 7 years.

How much is his investment worth after 7 years?

Worded Question

Packs of batteries cost £2.85 each.

Ben has £45 to spend on batteries.

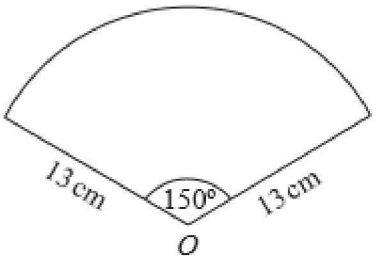
Ben buys as many packs of batteries as he can.
Work out how much change he should get from £45

Expressions

Apples cost ***a*** pence each.
Bananas cost ***b*** pence each.

Write an expression for the total cost, in pence, of 3 apples and 5 bananas.

Area of a Sector



Calculate the area of the sector

Averages from a Table

Mark asked 50 students how many days they had been late to school last week.

Number of days late	Frequency
0	20
1	8
2	10
3	7
4	5

Work out the mean

Ratio

Jim has only 5p and 10p coins.

The ratio of 5p coins to the number of 10p coins is 2:3.

Work out the ratio of the total value of the 5p coins : the total value of the 10p coins.

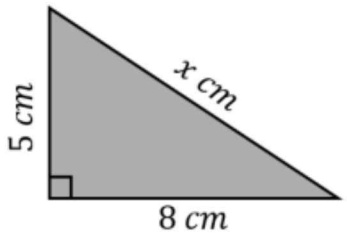
Give your answer in its simplest form.

Ordering Decimals

Put in ascending order:

0.202, 0.2, 0.25, 0.222, 0.059

Pythagoras' Theorem



Find x

Percentages

Rail ticket prices increased by 5 %

The price of a rail ticket from London to Ipswich increased by £2.30

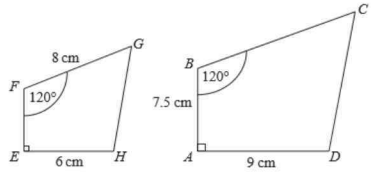
Work out the price of the ticket before the increase.

Relative Frequency

If you roll a fair dice 240 times, how many times would you expect to roll a prime number?

Similar Shapes

Shapes *ABCD* and *EFGH* are mathematically similar.



Calculate the length of BC and FE.

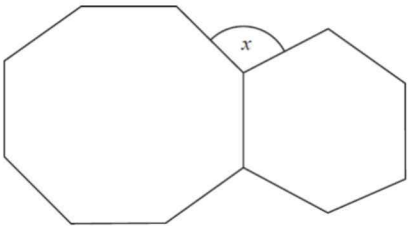
Reverse Mean

Mary has a number of £1 and £2 coins.

The mean value of all of her coins is £1.80.

What is the smallest number of £1 and £2 coins Mary could have?

Connected Polygons



The diagram shows a regular octagon and regular hexagon.

Work out the value of x.

Midpoint of a Line

Find the midpoint of the line joining these points

(2,4) and (6,10)

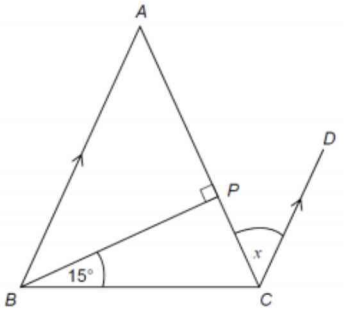
Currency

£1 = $1.42

Convert £600 into dollars.

Convert $482 into pounds.

Angles in Parallel Lines



AB=AC

Calculate angle x.

Best Buy

200ml for £1.20	**Oil**	300ml for £1.71

Which offer is better value?

Speed, Distance, Time

A sprinter runs a distance of 200 metres in 25 seconds.

Work out the average speed of the sprinter.

Give your answer in m/s

Proportion

It takes 4 painters 6 days to paint a house.

How long would it take 2 painters to paint the same house?