

Questions

Maths Paper 2 - Foundation

1,6,8,24,31

(a) From the list select a square number

(b) From the list select a prime number

Solve

$$3x + 2y = 13$$

$$4x - 2y = 8$$

A number, n , is rounded to 1d.p.

The result is 43.2.

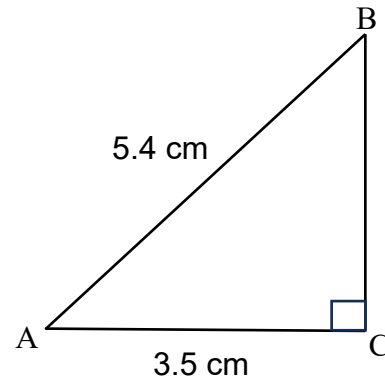
Complete the error interval

$$\underline{\quad} \leq n < \underline{\quad}$$

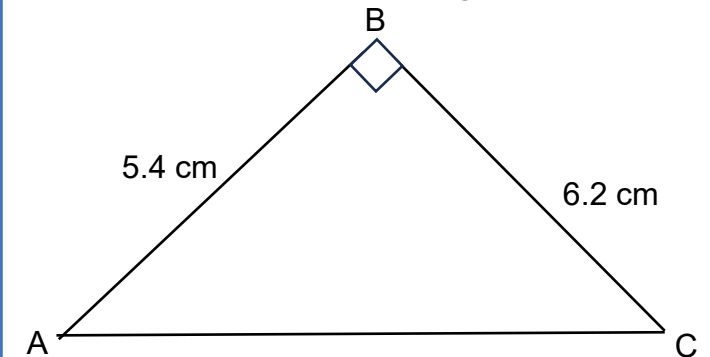
Complete the table

Fraction	Decimal	Percentage
$\frac{3}{4}$		
	0.03	
		80%

Work out the length of BC



Work out the size of angle BAC



Expand $4x(x + 5)$

Expand and simplify $4(x + 5) - 2(3x + 3)$

Express 60 as a product of prime factors

Find the HCF of 60 and 90

Make x the subject

$$3x + y = 15$$

Questions

Maths Paper 2 - Foundation

$$y = 4x + z$$

- (a) Work out y when $x = 3$ & $z = -5$
- (b) Work out x when $y = 10$ & $z = 2$

- (a) Convert 15cm into mm
- (b) Convert 45mm into cm
- (c) Convert 0.3kg into grams
- (d) Convert 6000ml into litres

A film starts at 14:20 and lasts for 85 minutes.
Work out the time that the film finishes.

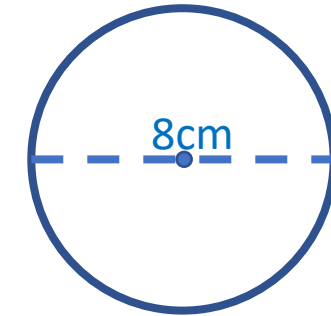
Simplify

- (a) $3a + 4a - a$
- (b) $3x^2 + 4x^2$

A number, n , is rounded to the nearest whole number.
The result is 26.
Complete the error interval for n

$$\dots \leq n < \dots$$

Find the area of



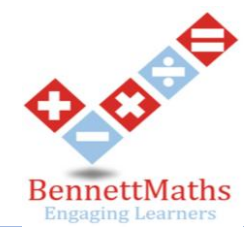
A car travels 40 miles in 2 hours.
Work out the speed that the car is travelling

Work out:

$$\sqrt{\frac{9.3 \times \tan(30)}{0.273}}$$

Make x the subject of:

$$r = x - 5$$



Examples/ Key words

Maths Paper 2 - Foundation

Convert 3200 into standard form
 $3200 = 3.2 \times 10^3$

Work out $4.2 \times 10^4 + 8 \times 10^3$.
 Give your answer in standard form

$42,000 + 8000 = 50,000$
 $50,000 = 5 \times 10^4$

Ordering FDP.
 Convert all values to decimals

Percentage to decimal = $\div 100$

Fraction to decimal = top \div bottom

Estimate = make the question easier by rounding

Evaluate = work out the answer

Express = Write in the different way

Simplify = Change the appearance

Volume of a cube = base \times height \times depth

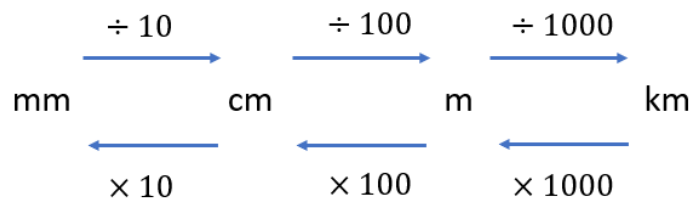
Volume of a cylinder = $\pi \times r^2 \times \text{depth}$
 Remember to keep your answer in terms of π , unless asked to estimate.
 $\pi \approx 3$

The volume of a shape is 20cm^3 .
 The mass of the shape is 120g .
 Find the density.
 Density = $\text{g}:\text{cm}^3$

$120:20$
 $6:1$
 Density = $6\text{g}/\text{cm}^3$

Angles in regular polygons:
 Sum of the interior angles = $(n - 2) \times 180$
 To find an interior angle = $\frac{\text{total}}{n}$ n = number of angles/sides.

Sum of the exterior angles = 360°
 To find an exterior angle = $\frac{360}{n}$ n = number of angles/sides



Area of a circle = $\pi \times r^2$

Circumference = $\pi \times d$

Mean = add together the values and divide by how many there are

Median = list in order and find the middle value

Mode = The number that appears the most