BennettMaths
Engaging Learners

Questions

Maths Paper 1 - Foundation

Simplify

(a) $p^4 \times p^3$

(b) $p^7 \div p^3$

(c) $(\frac{3}{4})^{-2}$

Find $\frac{1}{5}$ of 120

Find $\frac{3}{5}$ of 120

Factorise

(a) $x^2 + 8x + 16$

(b) $x^2 - 8x + 7$

Complete the table

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

Write 50g as a ratio of 75g.
Give your answer in its simplest form

Share £350 in the ratio 4:1:2

Write down the value of:

(a) $Sin(30)$

(b) $Cos(60)$

Work out $\frac{2}{3} + \frac{6}{8}$

Work out $\frac{2}{5} \times \frac{3}{7}$

Work out $2\frac{2}{3} - \frac{6}{8}$

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

Express 60 as a product of prime factors

Find the HCF of 60 and 90

If $x = 5$ and $Z = 15$

Find the value of y when

$$3x + y = 15$$

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Examples/ Key words

Maths Paper 1 - 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 = ÷100

Fraction to decimal = top ÷ bottom

Estimate = make the question easier by rounding

Evaluate = work out the answer

Express = Write in the different way

Simplify = Change the appearance

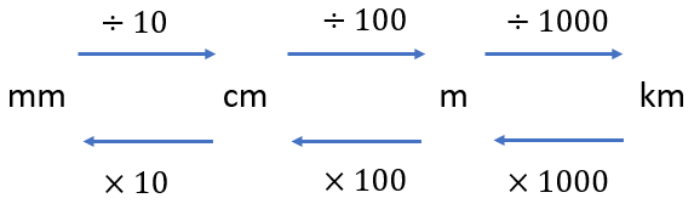
Volume of a cube = base x height x depth

Volume of a cylinder = $\pi \times r^2 \times depth$
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 = g:cm^3
120:20
6:1
Density = $6g/cm^3$

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

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



	0°	30°	45°	60°	90°
Sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1
Cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0
Tan	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	Undefined

Always include a key on a stem and leaf diagram.

Always include titles and labels on a bar chart.