

Simplify

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

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

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

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

Write down the probability of rolling a prime number on a fair dice.

Questions

Maths Paper 1 - Foundation

<p>$y = 4x + z$</p> <p>(a) Work out y when $x = 3$ & $z = -5$</p> <p>(b) Work out x when $y = 10$ & $z = 2$</p>	<p>(a) Convert 15cm into mm</p> <p>(b) Convert 45mm into cm</p> <p>(c) Convert 0.3kg into grams</p> <p>(d) Convert 6000ml into litres</p>	<p>A film starts at 14:20 and lasts for 85 minutes. Work out the time that the film finishes.</p>
<p>Simplify</p> <p>(a) $3a + 4a - a$</p> <p>(b) $3x^2 + 4x^2$</p>	<p>A car travels 40 miles in 2 hours. Work out the speed that the car is travelling</p>	<p>Work out 35% of 160</p> <p>Work out 125% of 160</p>
<p>Work out $\frac{2}{3} + \frac{6}{8}$</p> <p>Work out $2\frac{2}{3} - \frac{6}{8}$</p>	<p>Work out $\frac{2}{5} \times \frac{3}{7}$</p> <p>Work out $2\frac{1}{3} \div \frac{3}{5}$</p> <p>List the first 4 multiples of 7</p> <p>List all the factors of 24</p>	<p>Make x the subject of:</p> $r = x - 5$

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 = $\div 100$

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

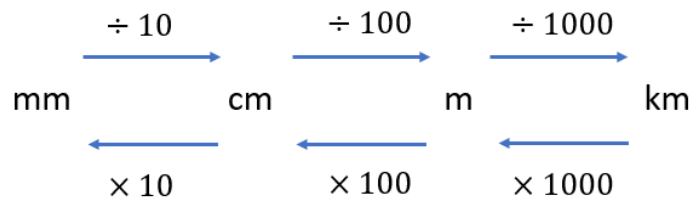
Volume of a cylinder = $\pi \times r^2 \times \text{depth}$
 Remember to keep your answer in terms of π , unless asked to estimate.
 $\pi \approx 3$

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



	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.