Convert 0.23 into a fraction

Convert 0.416 into a fraction

Solve $x^2 + 6x + 8 = 0$

Solve $x^2 + 2x - 15 = 0$

36cm

Find the area of the

in terms of π

sector. Give your answer

Maths Paper 1 - Higher

Questions

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

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

Solve 12n > 8n + 24

Solve 12n - 2 > 5n + 19

Work out $3.2 \times 10^4 - 2.8 \times 10^3$

4.5 cm

M

Simplify $\frac{x^2 - 100}{x^2 + 12x + 20}$

Simplify $\frac{x^2-100}{2x^2+24x+40}$

Find the length of KL

7 cm

15 cm

A line has the equation y = 2x + 8

perpendicular and passing through (4,3)

Find the equation of the line

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

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



Examples/ **Key words**

Maths Paper 1 - Higher

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

To simplify a surd – always find the largest square number that it can be divided by.

Estimate = make the question easier by rounding

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

E.g. $\sqrt{200} = \sqrt{100} \times \sqrt{2} = 10\sqrt{2}$

Evaluate = work out the answer

42,000 + 8000 = 50,000

Express = Write in the different way

 $50,000 = 5 \times 10^4$

The volume of a shape is 20cm³.

Simplify = Change the appearance Angles in regular polygons:

Sum of the interior angles = $(n-2) \times 180$

To find an interior angle = $\frac{total}{n}$ n= number of

Volume of a cube = base x height x depth or length³

The mass of the shape is 120g. Find the density.

Density = $g:cm^3$

120:20 6:1

angles/sides.

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

rectangles Gradient of a curve = draw tangent of the curve and find the gradient difference in y

difference in x

Surface area of a cuboid = The sum of

the area of the 3 pairs of congruent

Density = $6g/cm^3$ 90° $\frac{\sqrt{3}}{2}$ Sin $\frac{\sqrt{2}}{2}$ 1 0 Cos $\frac{\sqrt{3}}{3}$ Tan Undefined 0

 $x^{\frac{2}{3}} = (\sqrt[3]{x})^2$ $x^{\frac{1}{3}} = \sqrt[3]{x}$