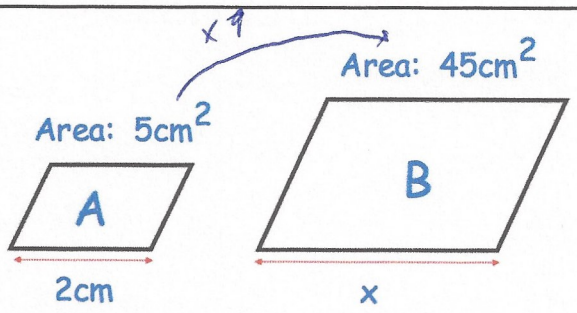
Name: _____ 5-a-day Higher

8th June

Corbettmaths

Write down 3 fractions with different denominators that convert to recurring decimals.

$\frac{1}{3}$ $\frac{3}{7}$ $\frac{9}{11}$



Shown are two mathematically similar parallelograms.
Find x.

$\sqrt{9} = 3$

$2 \times 3 = 6\text{cm}$

Simplify

$(9x^2y^4)^2$

$9x^2y^4 \times 9x^2y^4$

$81x^4y^8$

Simplify fully

$$\frac{x^2 + 4x}{x^2 + 3x - 4}$$

$$\frac{x(x+4)}{(x+4)(x-1)}$$

$$\frac{x}{x-1}$$

Find the equation of the line passing through (-1, 1) and (3,13) (x y)

$\frac{\text{rise}}{\text{run}} = \frac{12}{4} = 3$

$y = 3x + c$

$13 = 9 + c$

$c = 4$

$y = 3x + 4$