April 11th	5-a-day	Numeracy

8 10 12 13 20 23 26

Which two numbers have a sum of 43?

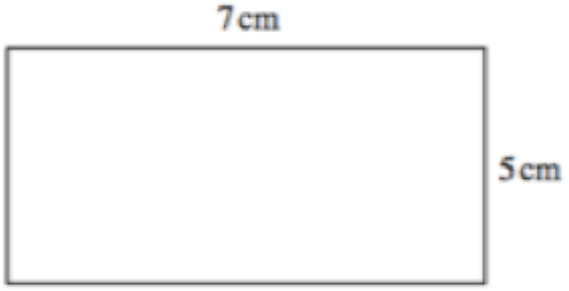
20 and 23

Which two numbers have a product of 240?

20×12

Draw all the lines of symmetry on the rectangle.

What is the order of rotational symmetry for a rectangle? 2



Work out the area of this rectangle

$7 \times 5 = 35 cm^2$

If the rectangle is enlarged by scale factor 2, what is the area of the enlarged shape?

$14 \times 10 = 140 cm^2$

How many times bigger is the area of the enlarged rectangle than the area of the small rectangle?

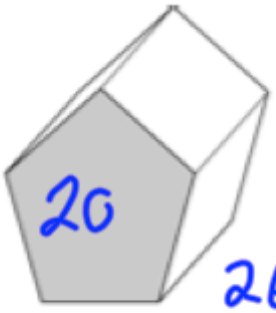
4

Expand 7(x - 6)

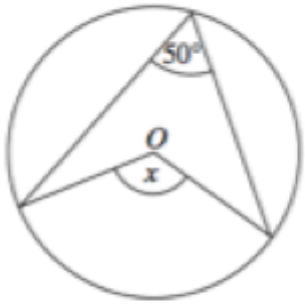
$7x - 42$

Expand y(y + 3)

$y^2 + 3y$

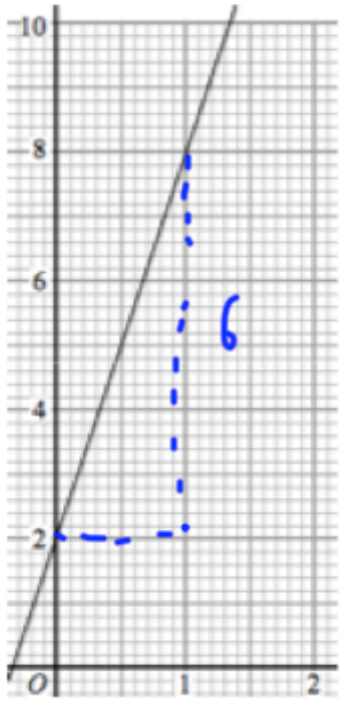
April 11th	5-a-day	Foundation
Round 0.081 to 1 significant figure 0.08		Round 8374 to 2 significant figures 8400
Estimate $41.2 \div 7.98$ $40 \div 8 = 5$		
$4\frac{1}{4} - 2\frac{2}{3}$ $\frac{17}{4} - \frac{8}{3}$ $\frac{51}{12} - \frac{32}{12} = \frac{19}{12}$		$1\frac{7}{12}$
 Volume = 260 $260 \div 20 = 13$		The area of the cross-section is $20cm^2$ The volume is $260cm^3$ How long is the prism? 13cm
Before training: 50kg After training: 80kg What is the percentage increase?		$\frac{30}{50} \times 100$ $= 60\%$

April 11	5-a-day	Higher



Work out x

$x = 100^\circ$



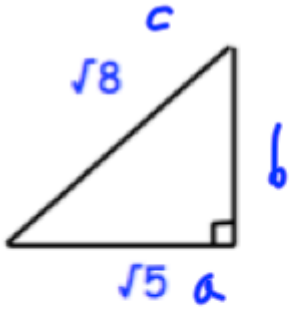
What is the equation of the line?

$y = 6x + 2$

A line is perpendicular to the one shown and passes through (0, 4).

What is it's equation?

$y = -\frac{1}{6}x + 4$



Calculate the length of the missing side. Leave your answer as a surd.

$(\sqrt{5})^2 + b^2 = (\sqrt{8})^2$

$5 + b^2 = 8$

$b^2 = 3 \quad b = \sqrt{3}$

Convert 0.54242424242.... into a fraction $x = 0.54242...$

$100x = 54.2424...$

$10000x = 5424.2424...$

$9900x = 5370$

$x = \frac{5370}{9900} = \frac{179}{330}$