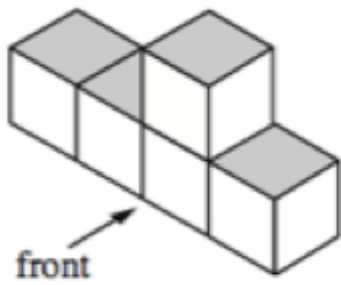


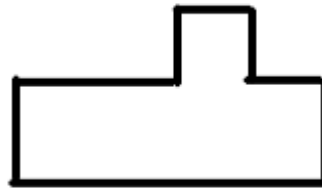
May 3rd

5-a-day

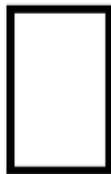
Numeracy



Draw the front view



Draw the side view



Draw the plan view



Work out  $0.4 \times 0.2$

$$\begin{array}{r} 0.4 \\ \times 0.2 \\ \hline 0.08 \end{array}$$

$4.2 - 1.82$

$$\begin{array}{r} 3 \phantom{1} \phantom{1} \phantom{1} \\ 4.20 \\ - 1.82 \\ \hline 2.38 \end{array}$$

$$2.38$$

Write as a percentage

$$\frac{9}{25} = \frac{36}{100} = 36\%$$

Simplify

 $a \times a \times a \times a$ 

$$a^4$$

Simplify

 $a^6 \times a^4$ 

$$a^{10}$$

$$A = 5w - 2y$$

Work out the value of  $w$  when  
 $A = 30$  and  $y = 5$

$$30 = 5w - 10$$

$$40 = 5w$$

$$w = 8$$

Solder is made from tin and lead.

The ratio of tin to lead is 1:2

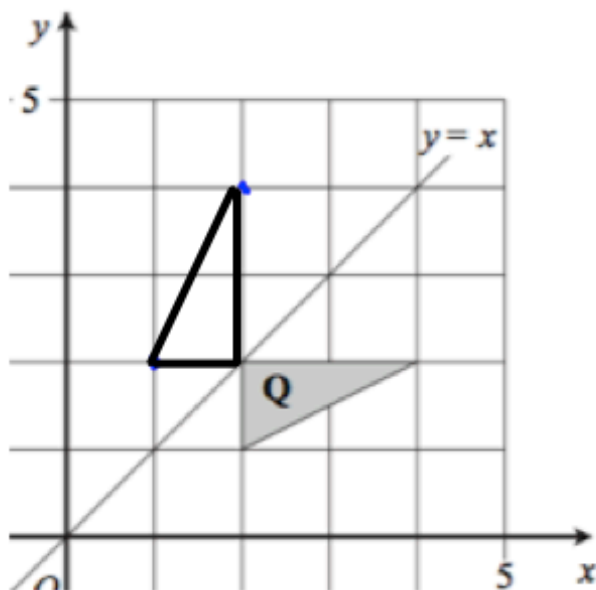
$$1 \times 2 = 3$$

Work out the weight of tin and lead in  
 600g of solder

$$600 \div 3 = 200$$

tin = 200 g

lead = 400 g



May 3

5-a-day

Higher

Expand and simplify

$(w + 5)(w - 3)$

$w^2 + 2w - 15$

A car is in the sale.

It's price has been reduced by 30%

It now costs £2100

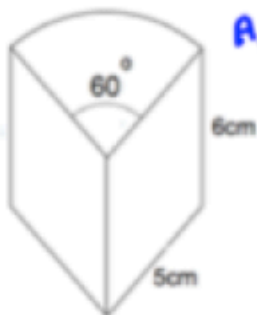
How much was the car originally?

$70\% = \pounds 2100$   
 $10\% = \pounds 300$   
 $100\% = \pounds 3000$

Solve

$9w + 10 = 20 - w$

$10w = 10$   
 $w = 1$



Area  $\leftarrow \frac{60}{360} = \frac{1}{6}$   
 $\frac{1}{6} \times \pi \times 5^2$   
 $13.08997 \text{ cm}^2$

Calculate the volume of the prism.

Volume:  
 $13.08997 \times 6$   
 $78.539 \dots \text{ cm}^3 \text{ (25TT)}$

Solve  $5x^2 - 4x - 2 = 0$

Give your answers to 1 decimal place.

$a = 5$   
 $b = -4$   
 $c = -2$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\frac{4 \pm \sqrt{16 - (-40)}}{10} = \frac{4 \pm \sqrt{56}}{10}$$

$$\frac{4 + \sqrt{56}}{10} = 1.1$$

$$\frac{4 - \sqrt{56}}{10} = -0.3$$