


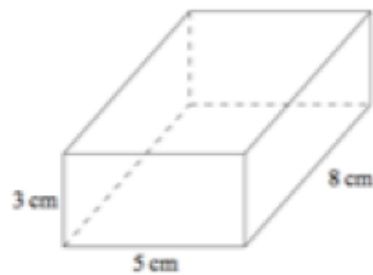
<p style="text-align: center;">Menu</p> <p>Burger 90p Egg 70p Chips 80p Mash 65p Drink 55p</p>	<p>Una buys a portion of chips. She pays with 5p pieces. How many does she need?</p> <p style="text-align: center; color: red;">16</p>
<p>Freddy buys three burgers, two portions of chips and a drink.</p> <p>How much does this cost?</p>	<p style="text-align: center; color: red;">£4.85</p>
 <p>What percentage of this shape is shaded?</p>	<p style="text-align: center; color: red;">75%</p>
<p>A bag contains 16 coloured balls. Three are red, five are blue and the rest are black.</p> <p>Frances takes out a ball at random, what is the probability of a:</p>	<p>a) red $\frac{3}{16}$</p> <p>b) black $\frac{8}{16} = \frac{1}{2}$</p>
<p>Write 0.06 as a fraction in its simplest form</p> <p style="text-align: center; color: red;">$\frac{6}{100} = \frac{3}{50}$</p>	<p>Write 12% as a fraction in its simplest form</p> <p style="text-align: center; color: red;">$\frac{12}{100} = \frac{6}{50} = \frac{3}{25}$</p>

May 17th

5-a-day

Foundation

Calculate the volume



$$3 \times 5 \times 8 = 120 \text{ cm}^3$$

The mean of 4 numbers is 15.

Three of the numbers are 12. What is the fourth number?

$$4 \times 15 = 60$$

$$12 \quad 12 \quad 12 \quad \square$$

$$12 + 12 + 12 = 36$$

$$\boxed{24}$$

In a triangle, the ratio of the angles a, b and c is 5:3:1.

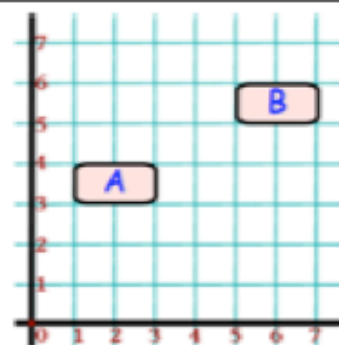
What is the size of each angle?

$$5 + 3 + 1 = 9$$

$$180 \div 9 = 20$$

$$100^\circ \quad 60^\circ \quad 20^\circ$$

Draw a cube on the isometric grid



Describe the translation of A to B, using a column vector.

$$\begin{pmatrix} 4 \\ 2 \end{pmatrix}$$

May 17

5-a-day

Higher

Simplify

$$\sqrt{15} \div \sqrt{3}$$

$$\sqrt{5}$$

Factorise

$$x^2 - 2x - 24$$

$$(x - 6)(x + 4)$$

Write as a single power of 4.

$$(4^5 \times 4^3)^4$$

$$(4^8)^4 = 4^{32}$$

A full water tank has sprung a leak.

It is losing 5% of water a minute.

How much water is lost over 10 minutes?

$$100 \times 0.95^{10}$$

$$= 59.87$$

$$100 - 59.87$$

$$= 40.13\%$$

Expand and simplify

$$(3 - \sqrt{7})^2$$

$$(3 - \sqrt{7})(3 - \sqrt{7})$$

$$9 - 6\sqrt{7} + 7 = 16 - 6\sqrt{7}$$