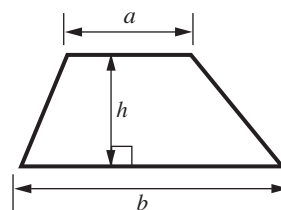
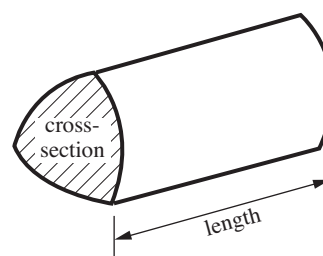


Formulae Sheet

Area of trapezium = $\frac{1}{2} (a + b)h$



Volume of prism = (area of cross-section) \times length



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7

**An image has been removed due to
third party copyright restrictions**

Details:

An image of a man baking

A bag contains 500g of sugar.
Simon uses 200g of this sugar.

What fraction of the sugar does he use?
Give your answer in its simplest form.

..... [2]

2

8 Simplify.

(a) $2t + 2t + 3t + 4t$

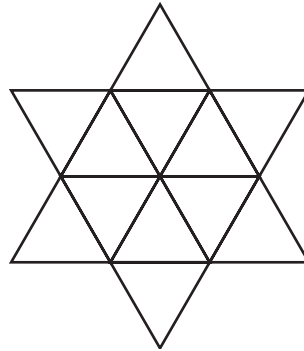
(a) [1]

(b) $5a + 2b - 3a + 4b$

(b) [2]

3

- 9 Shade **six** of the small triangles in the shape below to make a pattern with rotation symmetry of order 3.



[2]

2

- 10 Omar is comparing the prices of electricity from two suppliers, *Western Energy* and *Green World*.

The suppliers use the formulas below to calculate prices.

Western Energy

$$C = 42 + 0.09U$$

Green World

$$C = 0.13U$$

U stands for the number of units of electricity used.

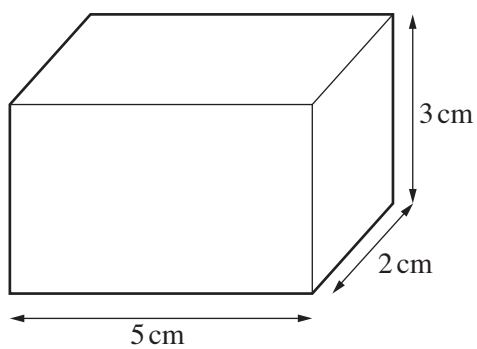
C stands for the cost in pounds of the electricity.

Omar uses 875 units of electricity.

Which supplier is cheaper, and by how much?

..... is cheaper by £[4]

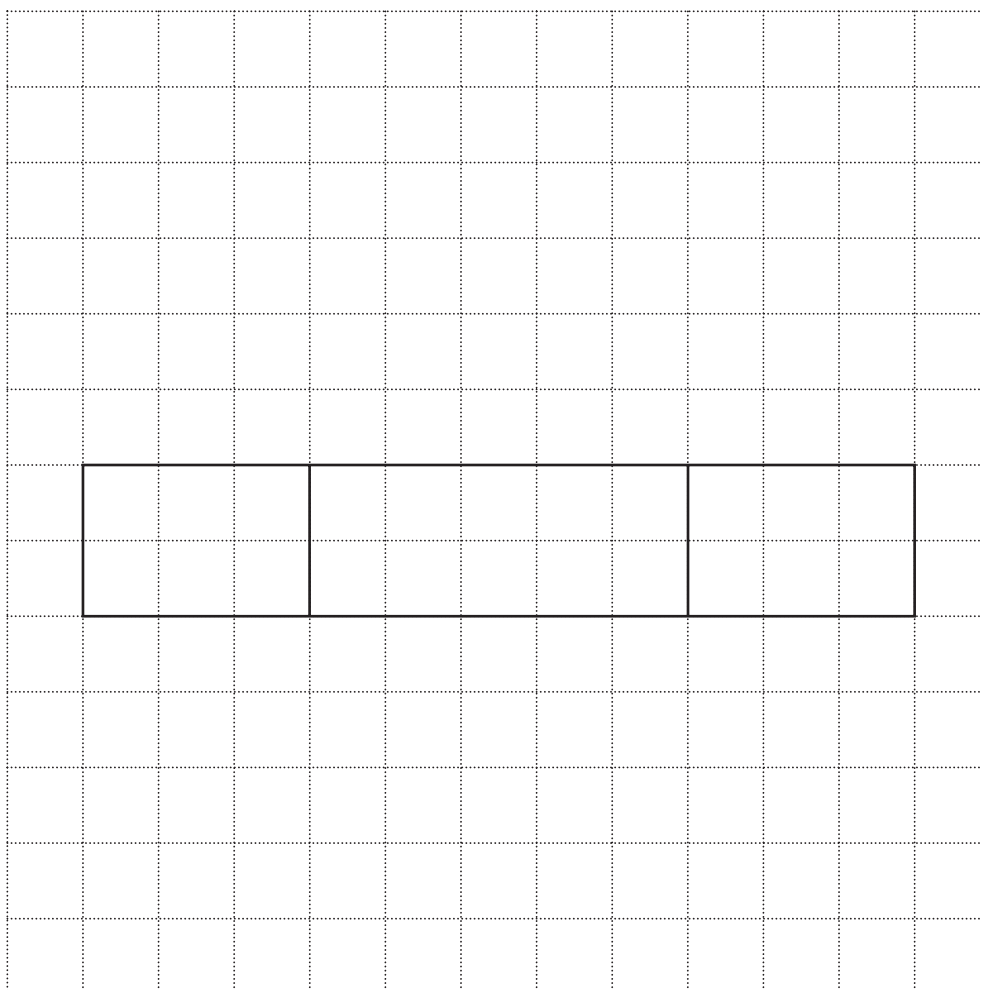
4



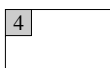
(a) Work out the volume of this cuboid.

(a)..... cm^3 [2]

(b) Complete this **full-size** net of the cuboid by drawing the other three faces.

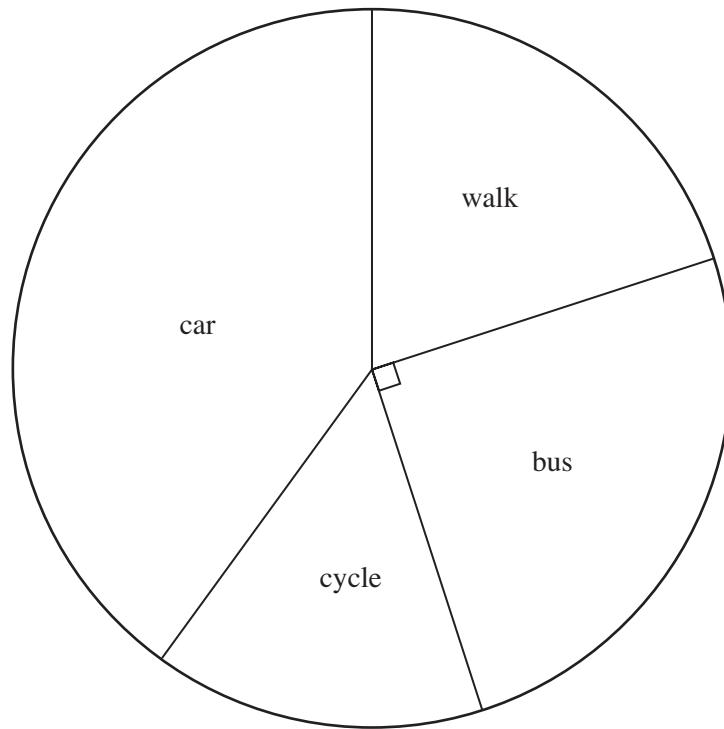


[2]



[Turn over]

- 12 (a)** This pie chart represents the results of a survey about how pupils travel to school.



- (i)** What is the most popular way to get to school?

(a)(i) [1]

- (ii)** What percentage of pupils travel to school by bus?

(ii)% [1]

- (iii)** 180 pupils took part in the survey.

How many pupils travel by car?

(iii) [3]

- (b)** The mean distance travelled by the 27 pupils who cycle to school is 2.4 km.

Calculate the total distance travelled by these 27 pupils.

(b) km [2]

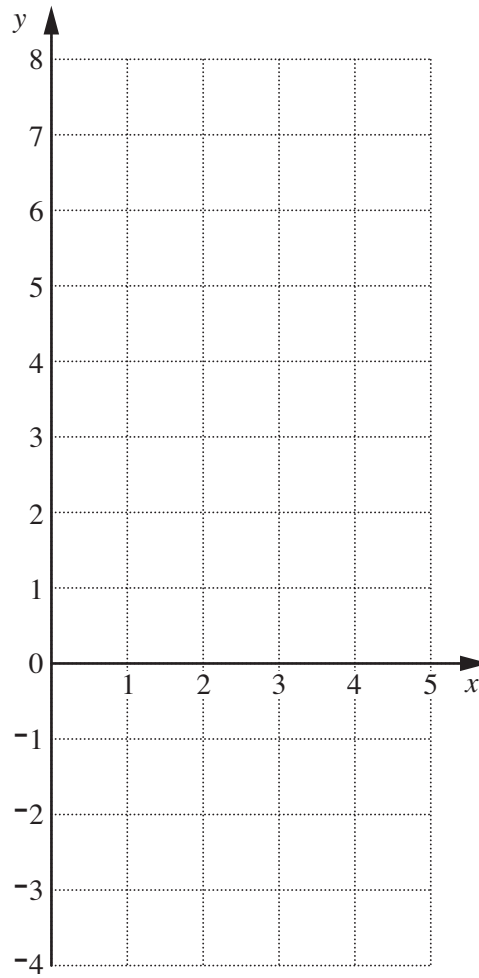
7

- 13 (a) Complete the table for $y = 2x - 3$.

x	0	2	4
y		1	

[1]

- (b) Draw the graph of $y = 2x - 3$.



[2]

3	

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