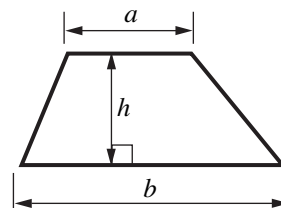
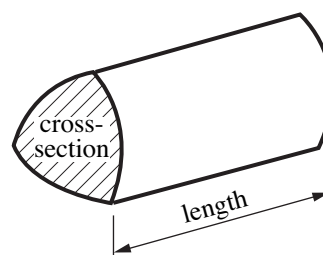


Formulae Sheet

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



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



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1 Work out.

(a) $2 \cdot 1 \times 4$

(a) [1]

(b) $19 \div 100$

(b) [1]

(c) $3 \cdot 6 \div 6$

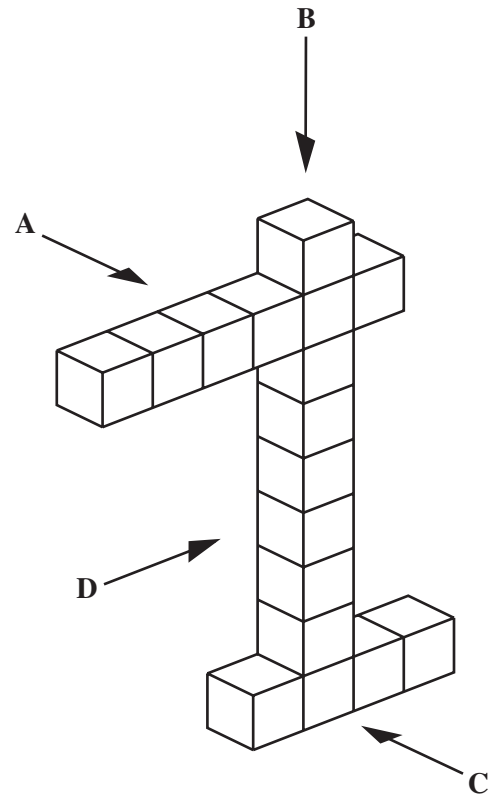
(c) [1]

(d) $3 + 2 \times (4 + 1)$

(d) [2]

5	

- 2 Here is a sketch of a model tower crane.
It is made from cubes.
You can see all the cubes.



- (a) Each cube in the model has a mass of 4 g.

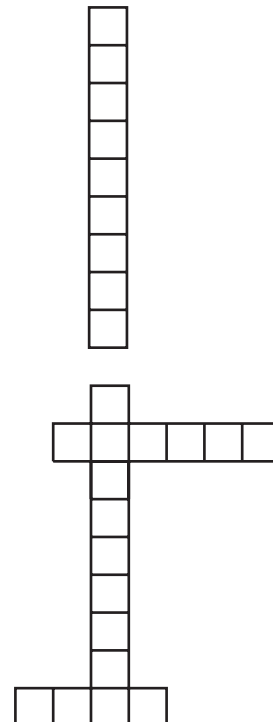
What is the total mass of the model?

(a)..... g [2]

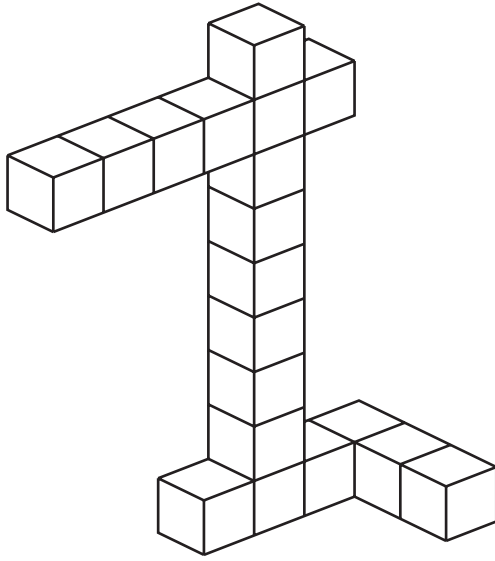
- (b) Complete each of these sentences.
Use the letters from the diagram.

(i) This is the view looking along arrow

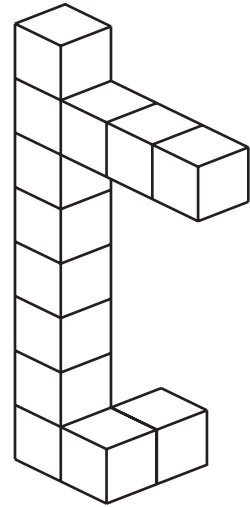
(ii) This is the view looking along arrow



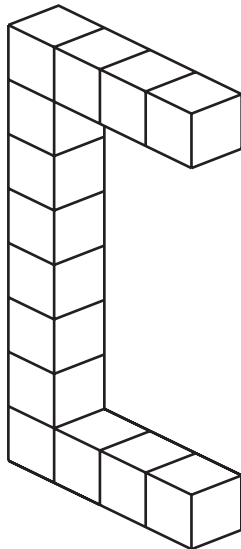
- (c) Put a tick (✓) under each model that has reflection symmetry.
Put a cross (✗) under each model that **does not** have reflection symmetry.



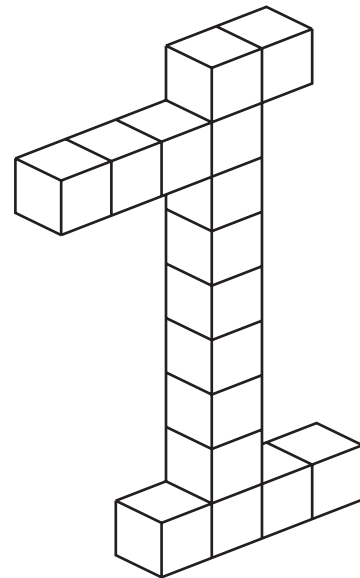
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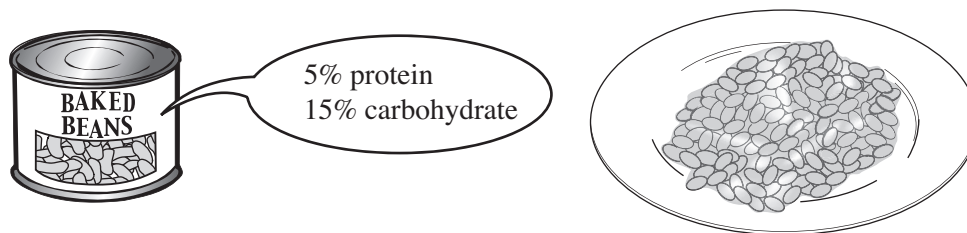
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.....



.....



(a) What weight of protein is there in 200 g of baked beans?

(a)..... g [2]

(b) What weight of carbohydrate is there in 200 g of baked beans?

(b) g [1]

3

- 4 This is the morning timetable for the school bus.

High Street	07 48
Shipp Road	08 04
Balmead Crossroads	08 15
Freeland Estate	08 21
School	08 28

- (a) How long does the bus take from Shipp Road to School?

(a) minutes [1]

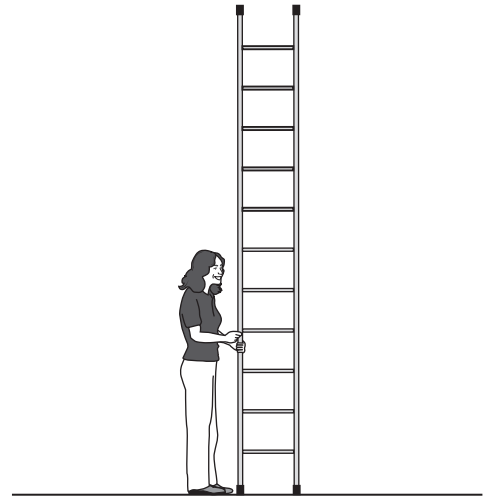
- (b) How long does the bus take from High Street to Shipp Road?

(b) minutes [1]

2

- 5 (a) This picture shows a woman with a ladder.

Estimate the length of the ladder.

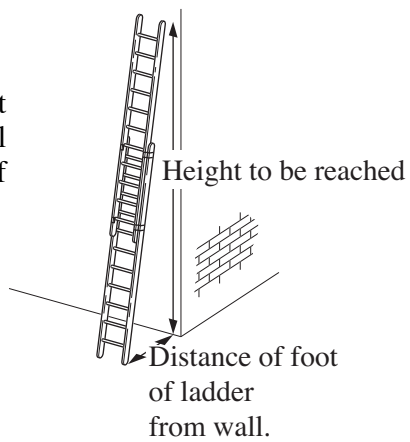


(a).....m [1]

(b)

Safety First!

The distance of the foot of a ladder from the wall should be one quarter of the height to be reached.



- (i) A ladder has to reach a height of 8 m.

Use the rule to find the distance of the foot of the ladder from the wall.

(b)(i).....m [1]

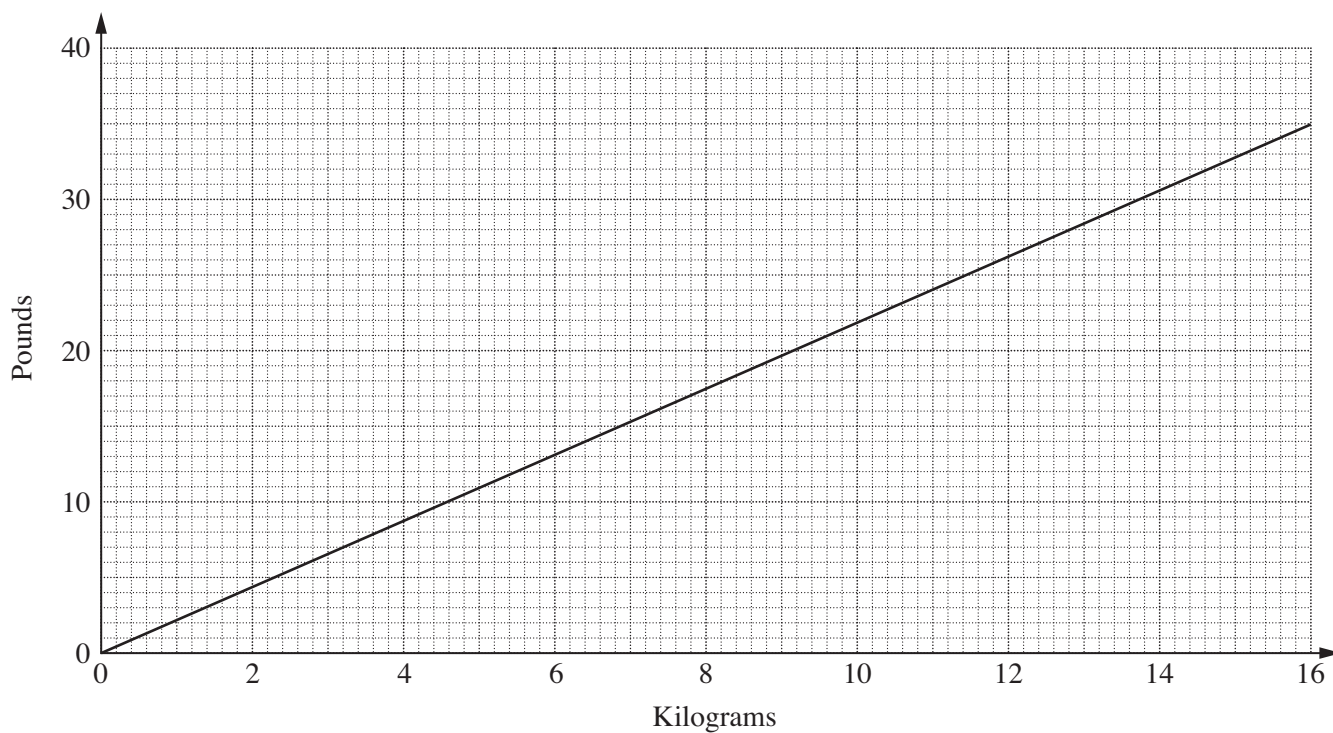
- (ii) The distance of the foot of a ladder from a wall is 80 cm.

Use the rule to find the height the ladder will reach.
Give your answer in metres.

(ii).....m [2]

(c)

Conversion graph for pounds to kilograms



- (i) A ladder weighs 15 kilograms.

Use the conversion graph to convert 15 kilograms into pounds.

(c)(i)pounds [1]

- (ii) Which is heavier, a ladder weighing 20 pounds or one weighing 10 kilograms?
Give a reason for your answer.

..... because

.....

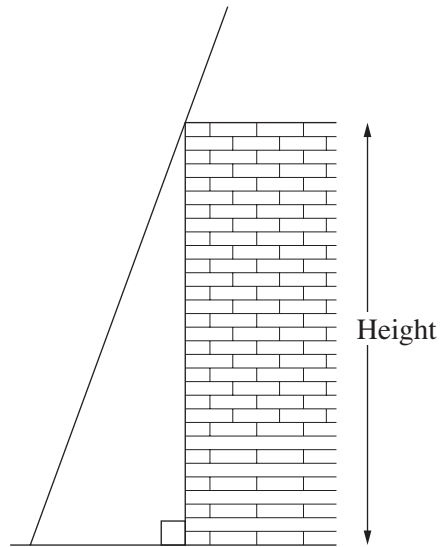
..... [2]

TURN OVER FOR QUESTION 5(d)

10

- (d) This is a scale drawing of a ladder and a wall.
The wall is at right-angles to the ground.

Scale: 1 cm to 1 m



What is the height of the **real** wall?

Give the units of your answer.

(d) [2]

9

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