

6 Solve.

(a)  $a + 2 = 7$

(a) .....[1]

(b)  $10 - b = 8$

(b) .....[1]

(c)  $3c = 12$

(c) .....[1]

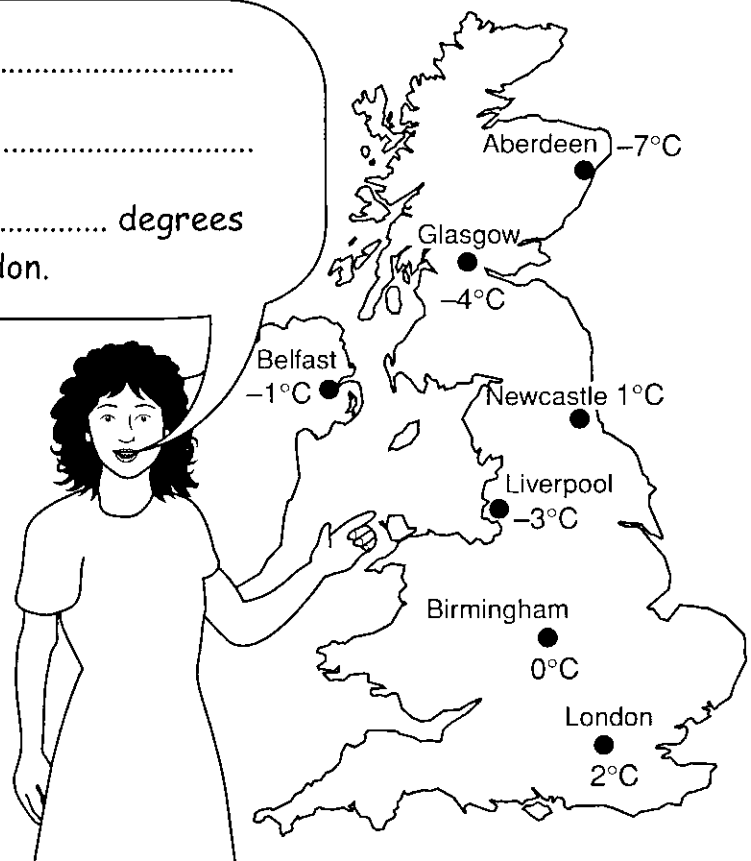
3

7 Fill in the missing numbers or names.

The coldest place today is .....

The warmest place today is .....

The temperature in Belfast is ..... degrees  
colder than in London.



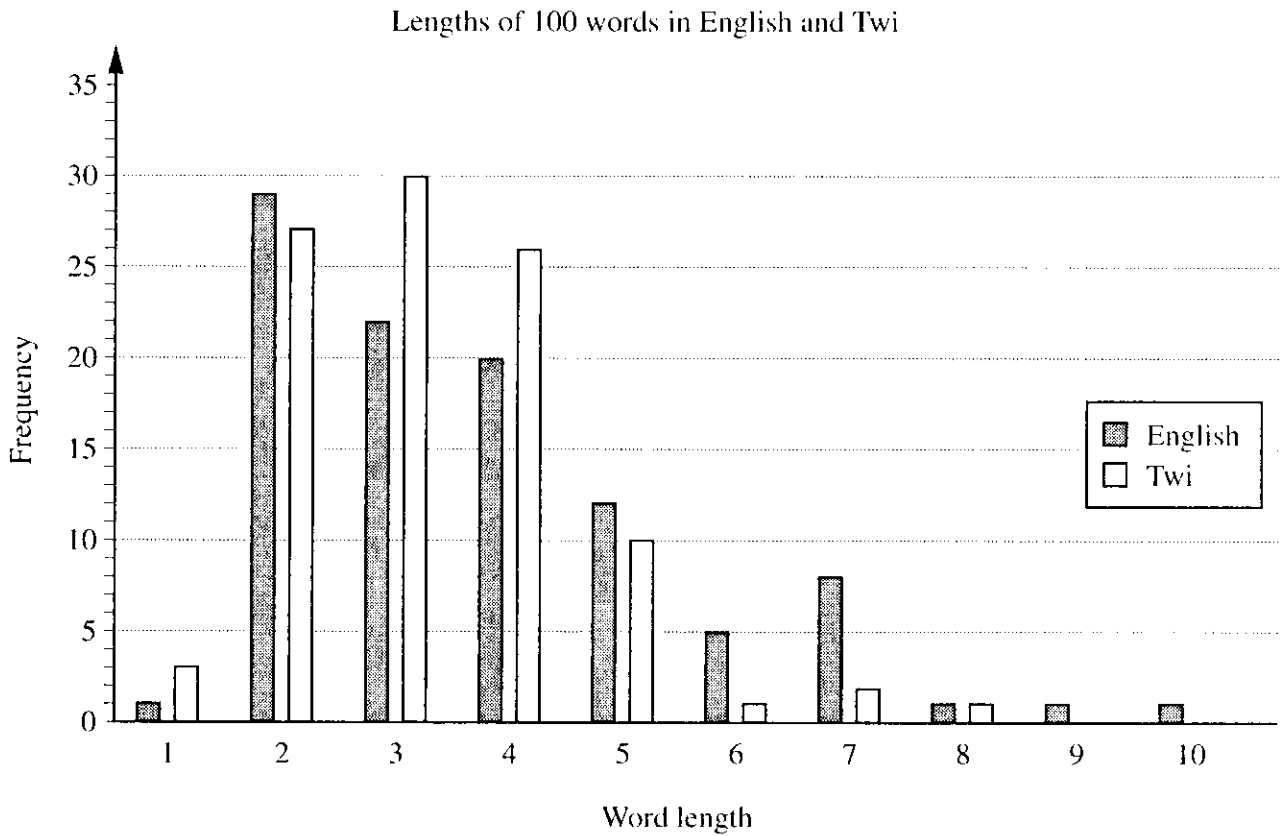
[3]

3

[Turn over



- 8 This bar chart shows the lengths of 100 words in English and in the African language Twi.



- (a) Which is the most frequent word length in Twi?

(a) .....[1]

- (b) How many times were 6 letter words found in English?

(b) .....[1]

- (c) Write down one comment about **the difference** in the word lengths of English and Twi.

.....  
 .....[1]

- (d) Twi is mainly spoken in Ghana.  
 About one third of the 42 million people in Ghana speak Twi.

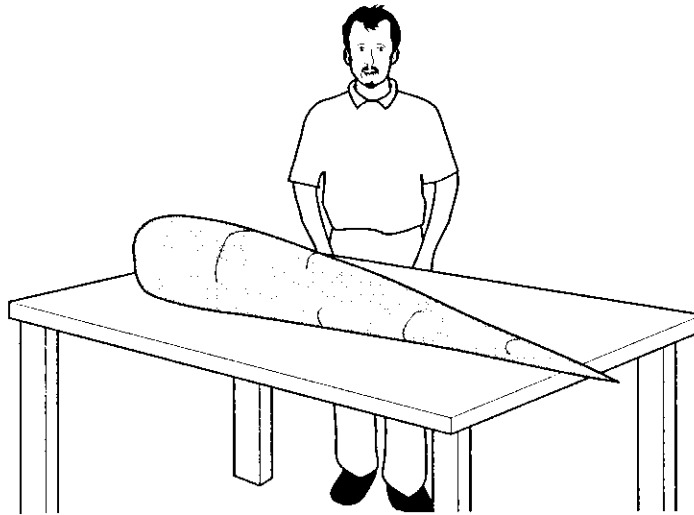
What is one third of 42 million?

(d) .....million [1]

4



- 9 (a) This man is looking at the world's largest carrot.



- (i) Estimate the length of the carrot.

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

- (ii) The mass of the carrot is 18 pounds.

**Roughly** how many kilograms is 18 pounds?

(ii) .....kg [1]

- (b) Here is a rule for changing gallons into litres.

Multiply by nine  
then divide the  
answer by two.

A giant watermelon contains 26 gallons of water.

Use the rule to change 26 gallons into litres.

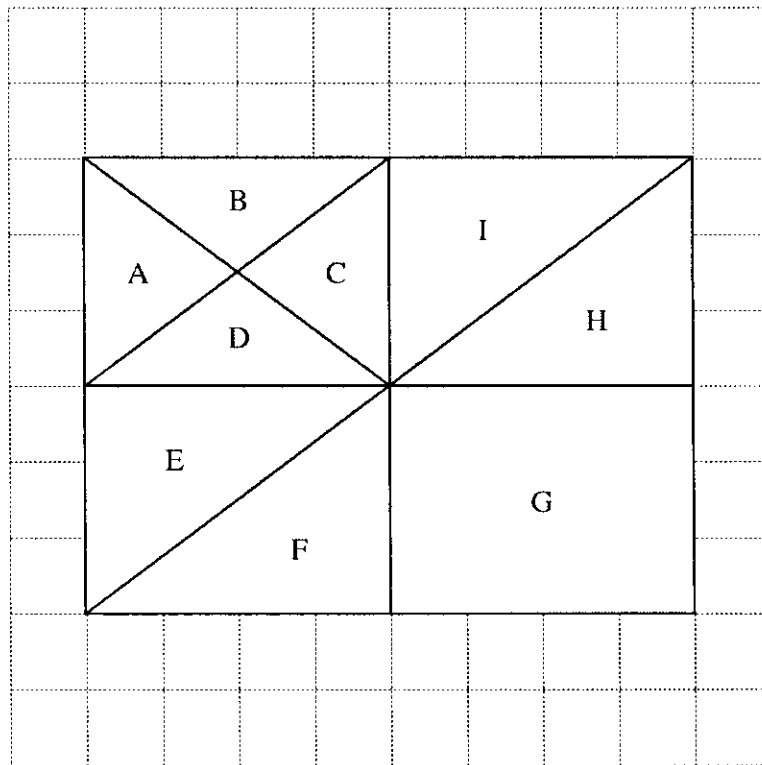
(b) .....litres [2]

[Turn over

4



- 10 Here is an accurate drawing of a tangram on a centimetre grid. The tangram is made from nine pieces. Each piece is labelled with a letter.



- (a) Calculate the area of piece G.

(a) .....cm<sup>2</sup> [1]

- (b) Calculate the area of piece E.

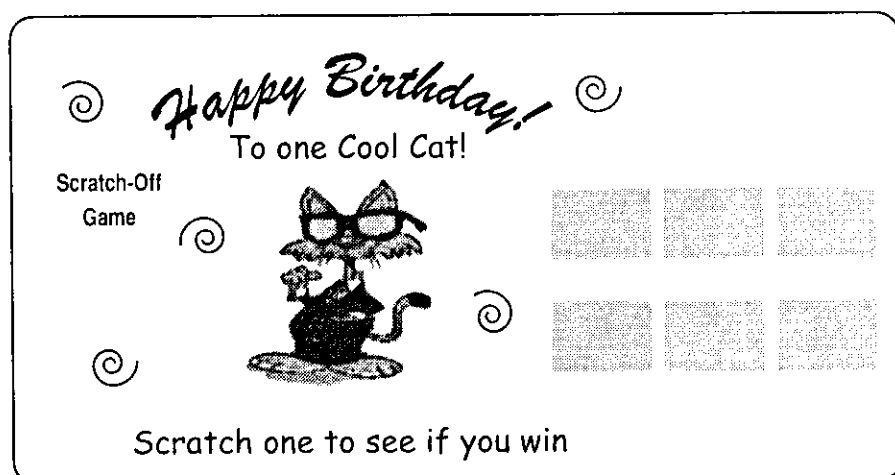
(b) .....cm<sup>2</sup> [2]

- (c) Which **seven** pieces make three quarters of the whole tangram?

(c) ..... [1]



- 11 A player scratches one of the boxes and wins (or loses) depending on the comment.

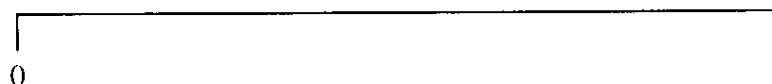


The six comments in the boxes are:



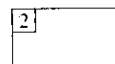
Aijaz scratches a box at random.

- (a) On the line below, mark with an arrow the probability that Aijaz loses. [1]



- (b) What is the probability that Aijaz wins a big prize?

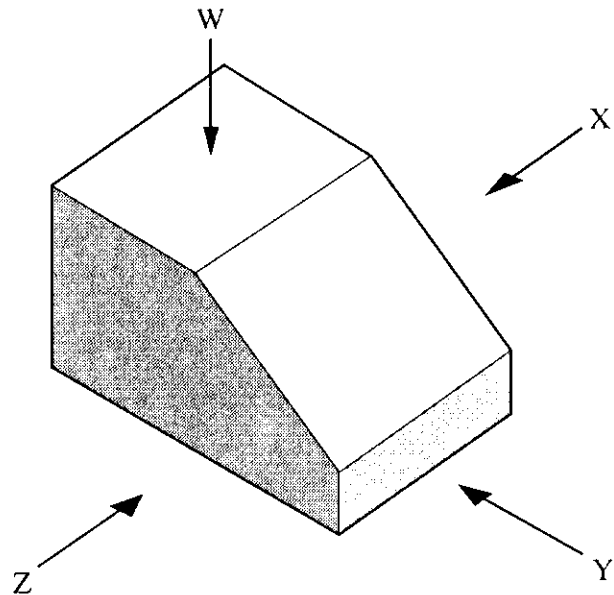
(b) ..... [1]



[Turn over]



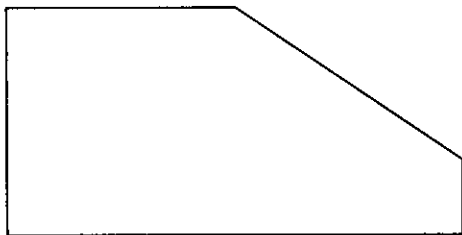
12 (a)



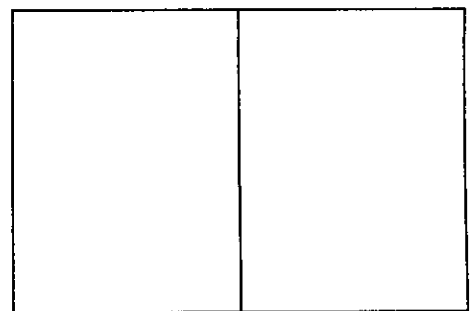
Below are four views  
of this solid shape, looking  
from the directions W, X, Y and Z.

Fill in the correct letters to match the views.

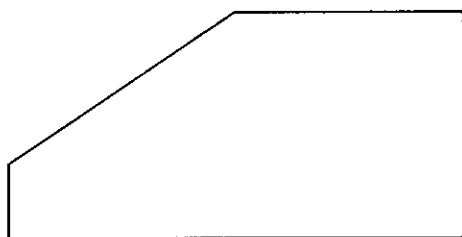
View from .....



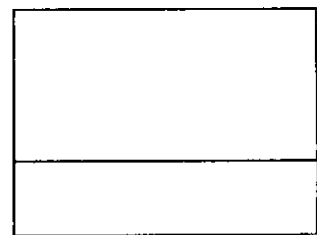
View from .....



View from .....



View from .....

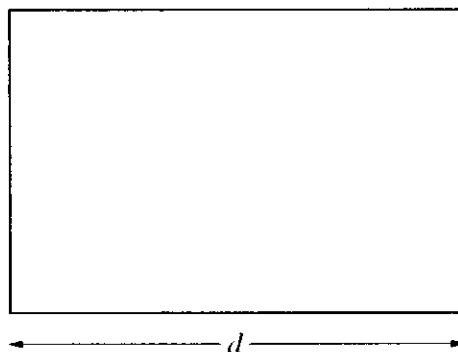


[3]



- (b) Here is the base of the solid.  
It is drawn half size.

Find the real length of the side labelled  $d$ .



(b) .....cm [2]

5
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