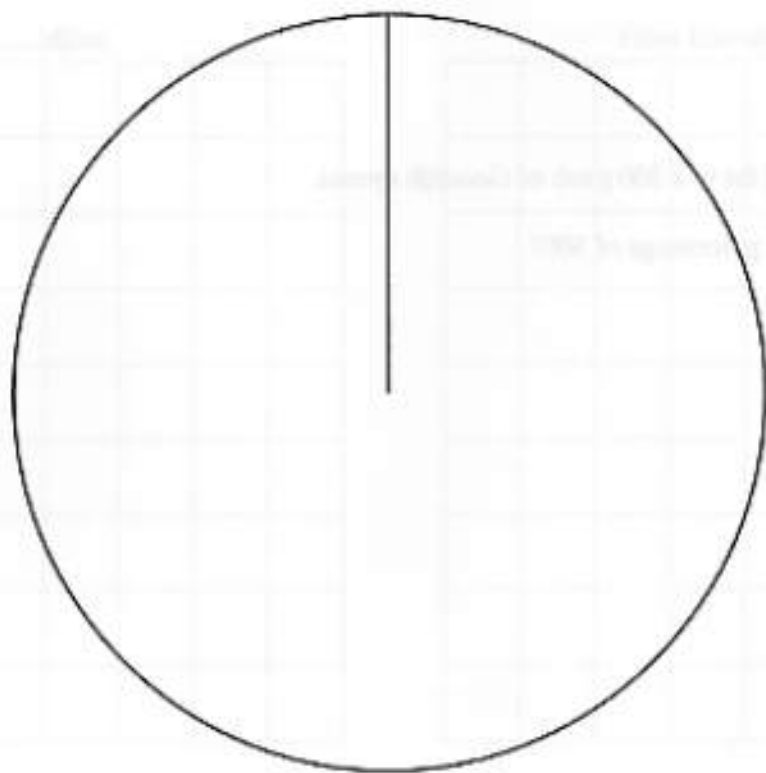


- 7 Cindy is doing a survey of the students in her year group to find the most common pet. The results are shown in the table.

Pet	Frequency
Rabbit	12
Cat	24
Hamster	30
Dog	54
Total	120

Draw a pie chart using the circle provided.



[4]

4
---

8 Simplify.

(a)  $6m + 2m - 3m$

(a) .....[1]

(b)  $3x + 15y + 2x - 11y$

(b) .....[2]

3
---

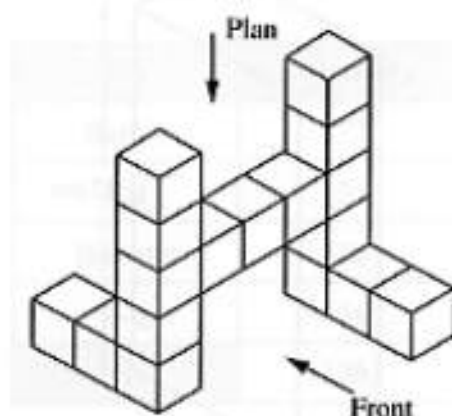
9 There is 135 g of fat in a 300 g tub of *Goodlife* spread.

What is 135 as a percentage of 300?

.....%[2]

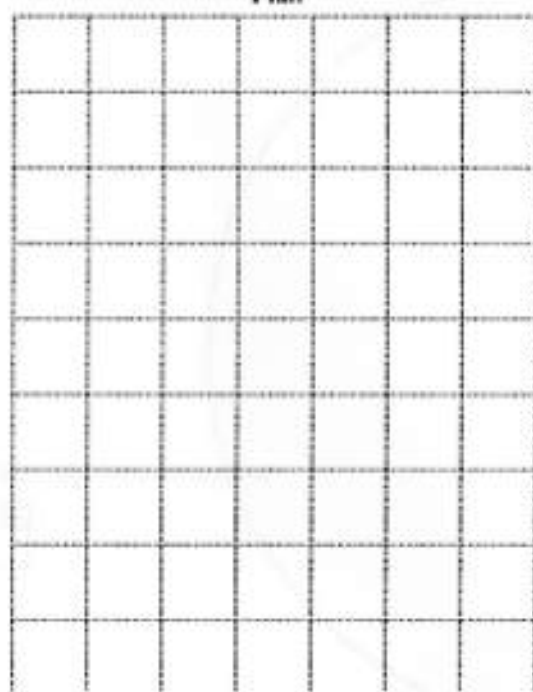
2
---

- 10 This solid is made from one-centimetre cubes.



Draw, full size, the plan and front elevation of this solid.

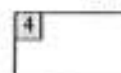
Plan



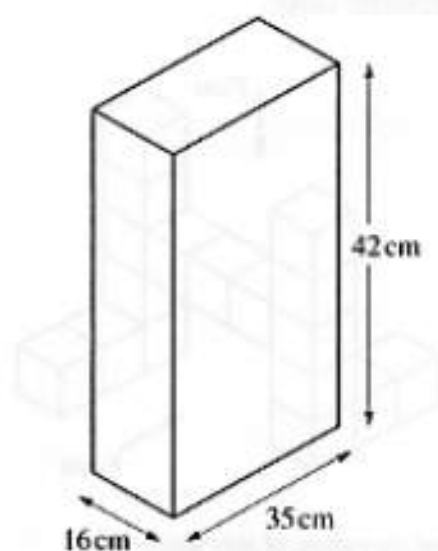
Front Elevation



[4]



11



Calculate the volume of this cuboid.

..... cm<sup>3</sup> [2]

2

- 12 Calculate  $\sqrt{5^2 + 6^2}$ .  
Write your answer correct to 2 decimal places.

..... [2]

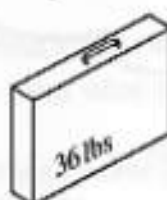
2

- 13 *Eddie Bristow Haulage* has 280 lorries.  
 At any one time  $\frac{3}{8}$  of these lorries are not in use.  
 Of those not in use 40% are being repaired.  
 How many lorries are being repaired?

14

Case A

Case B



Which case is heavier?  
 Show how you decide.

Case ..... is heavier because .....

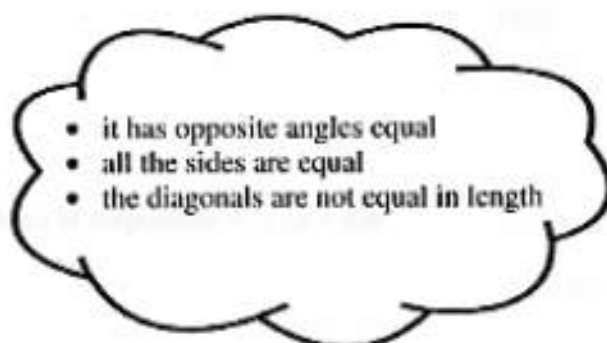
[2]

2

TURN OVER FOR QUESTION 15

15 Mr Barber asks members of his class to describe quadrilaterals.

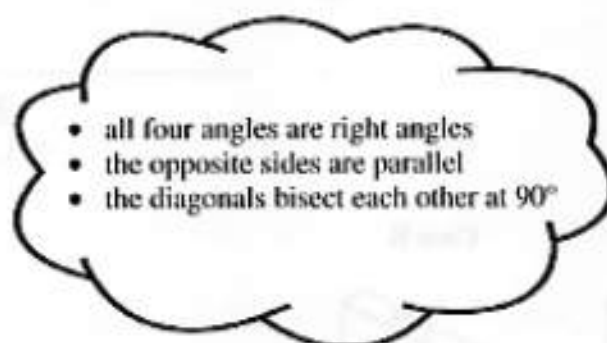
(a) Louise describes one quadrilateral:



What is the mathematical name of this quadrilateral?

(a) ..... [1]

(b) Stephanie describes another quadrilateral:



John says that it is a rectangle.

Is he correct?

Give a reason for your answer.



..... because .....

.....

..... [1]

