

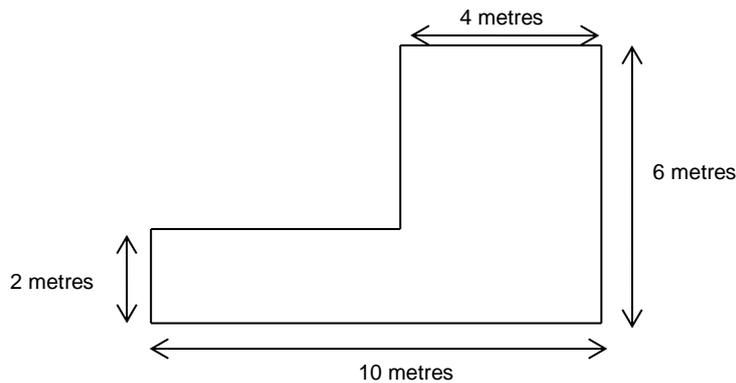
## Assessment tasks

4. Complete the following table which shows departure and arrival times for different bus journeys.

Depart	Arrive	Time taken
0940	1155	
2210		5h 15 mins
	1905	4h 35 mins

3

5. The diagram shows an L-shaped room.



**O1.5**

The joiner finishing the room bought 30m of wood for the skirting.

1

1

Has he bought enough wood to edge the whole room?

6. A cyclist travelled a speed of 16mph for 15 minutes.

How far does he travel in this time?

1

7. The PT decides his 72 textbooks should be split in the ratio of 4:5 between two classes.

The larger class received 44 books.

Is this the correct amount?

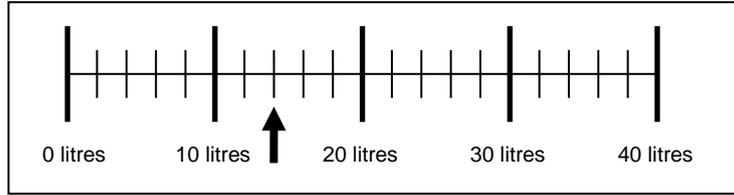
Justify your answer by calculation.

**O1.5**

2

1

9. The petrol guage in a car is shown below. How much petrol will be required to fill the tank?



O1.4

1

12. The Wilson family are renovating their house and are using a skip to remove the waste. The skip hire company has two sizes of skip

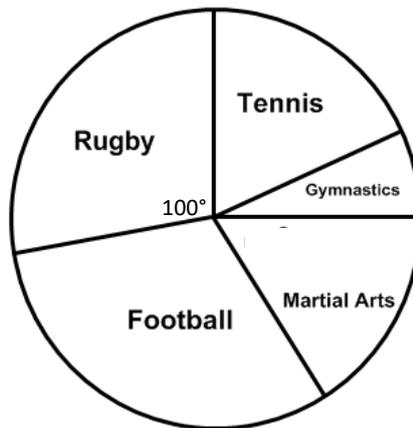
20m<sup>3</sup> skip costing £120 to empty  
 35m<sup>3</sup> skip costing £180 to empty

O1.4

If the Wilsons have an estimated 86m<sup>3</sup> of waste to remove, how many of each skip will they require?  
 How much will this cost?

1

13. A school survey asked 1080 pupils their favourite sports. The results are shown in the pie chart below:



How many pupils favourite sport was Rugby?

O2.1

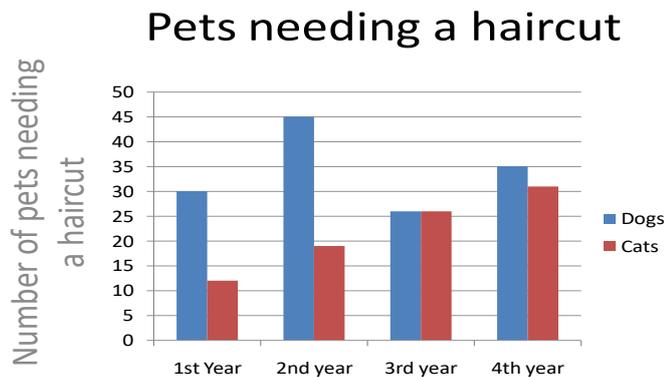
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14. An investment company promises a different rate of profit depending on which product you choose and how much money you invest.

Product	Less than £500	Between £500 and £1000	Between £1000 and £10000	More than £10000
ISA	2.1%	2.3%	2.4%	3.8%
Bonds	1.7%	2.5%	2.6%	3.5%
Shares	2.4%	2.2%	2.8%	3.1%

If you invest £3450 which product will give you the most profit?

15. A local pet shop gathered the data from birth of animals requiring a haircut.  
The compound bar chart below gives the results of the data collected.



- (a) How many dogs needed a haircut by the 2<sup>nd</sup> year?
- (b) Compare the numbers requiring a haircut by both cats and dogs across the 4 years.
16. Three mobile phone companies each have a contract available at the same price.

	Company A	Company B	Company C
Calls (minutes)	300	200	100
Texts	200	400	300
Internet (Mb)	250	100	750

John is looking for a mobile phone contract which will give him 120 minutes of calls, 250 texts, and 400Mb of internet use.

Which company's plan would be best for him?

O2.1

1

O2.2

1

17. Pupils are being selected to represent the school in a mathematics competition.

**O2.3**

Class A has 18 pupils and 2 are to be selected

Class B has 26 pupils and 3 are to be selected

1

In which class do you have a better chance of being selected?

18. Three rugby teams play in the same city.

Club A has lost 2 of their 10 games

Club B has lost 3 of their 11 games

Club C has lost 5 of their 15 games

**O2.3**

Which team has lost the lowest proportion of games played?

Justify your answer by calculation.

1