

L6 Booster Handling Data

Name: _____

Date: _____

22. There are 25 pupils in a class.

The table shows information about their test results in maths and English.

		English		
		Level 5	Level 6	Level 7
maths	Level 5	0	1	1
	Level 6	2	7	0
	Level 7	2	1	4
	Level 8	0	1	6

(a) How many pupils had the same level in both maths and English?

 _____

1 mark

(b) How many pupils had a **higher** level in **maths** than in English?

24. The table shows whether pupils in a class walk to school.

	Walk to school	Do not walk to school
Boys	2	8
Girls	5	10

- (a) What percentage of the **boys** walk to school?

 _____ %

1 mark

- (b) What percentage of the **pupils** in this class walk to school?



9

Here are three questions and answers about bananas.

On average, how much does each person pay for bananas in supermarkets?

Answer: **56p per kg**

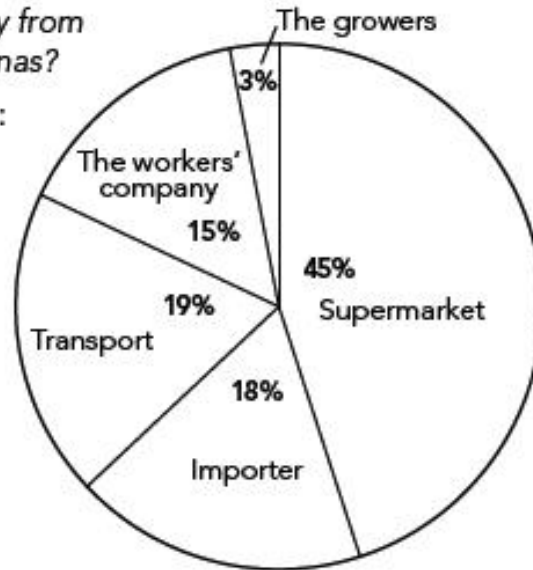


On average, what quantity of bananas does each person eat in one year?

Answer: **10kg**

Who gets money from the sale of bananas?

Answer:



How much of the money each person pays for bananas in one year goes to the **growers**?

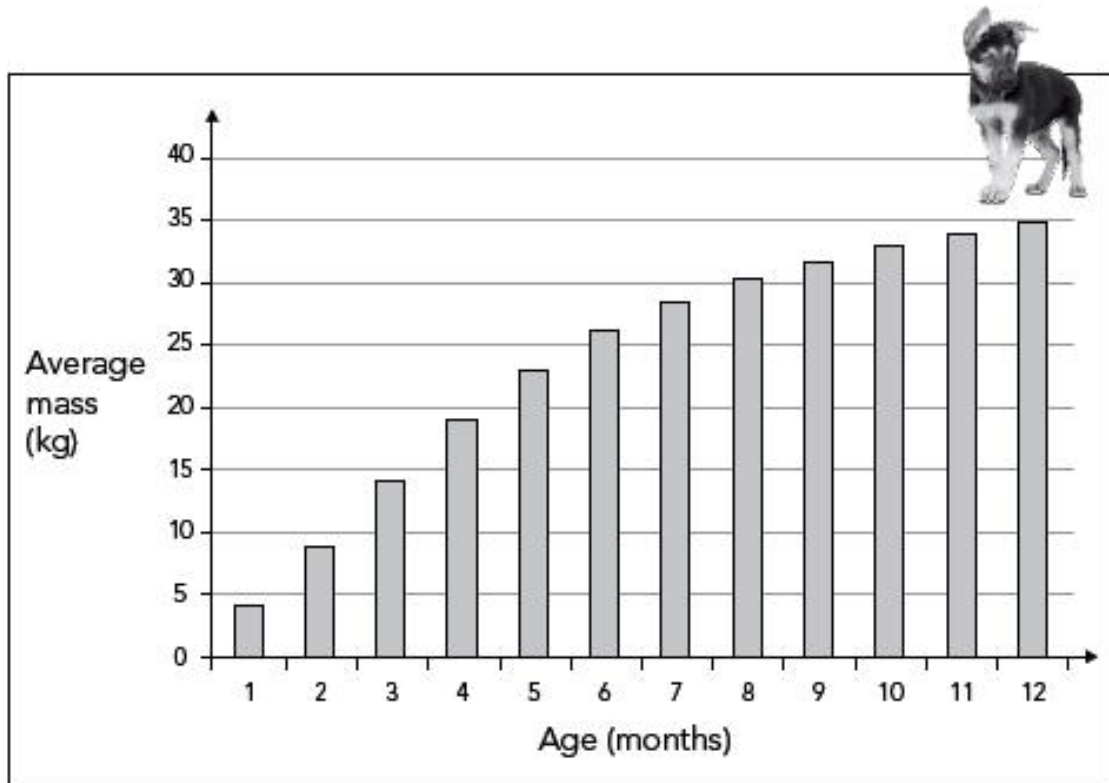
Show your method

p

(2 marks)

12

Here are two pieces of information about dogs called German Shepherds.



The average mass of an **adult** German Shepherd is about 35kg.

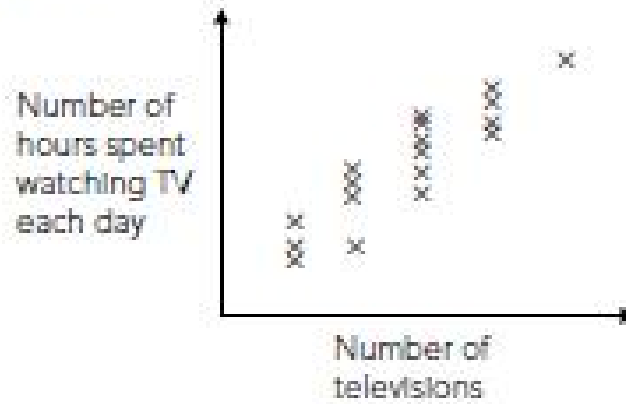
Use **both** pieces of information to summarise how German Shepherd dogs grow.



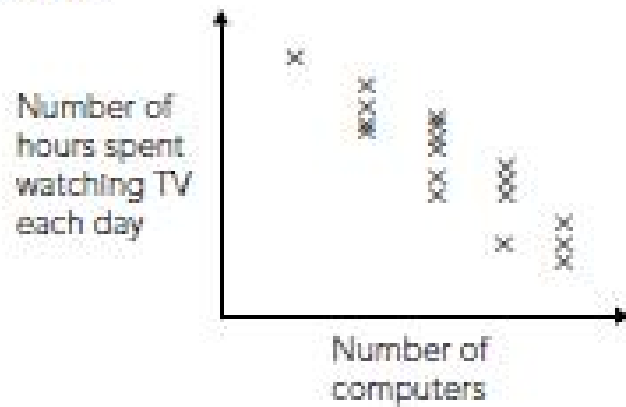
(2 marks)

Here are three scatter diagrams, labelled A, B and C.

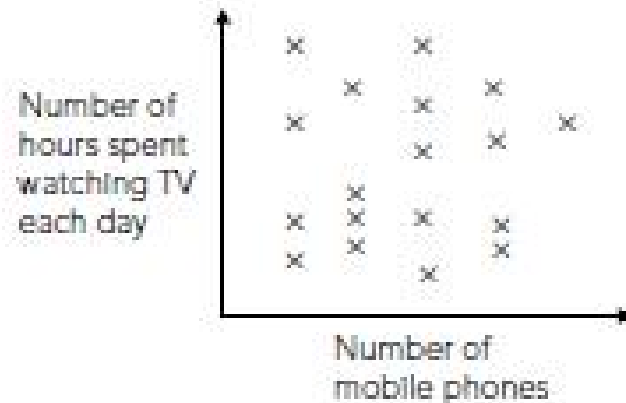
Scatter diagram A



Scatter diagram B



Scatter diagram C



The questions are on the next page.

Kemi writes:

Scatter diagram **A** shows that the more televisions a person has in
their home the more hours they spend watching television.

Now complete the sentences below.



Scatter diagram **B** shows that _____

(1 mark)



Scatter diagram **C** shows that _____

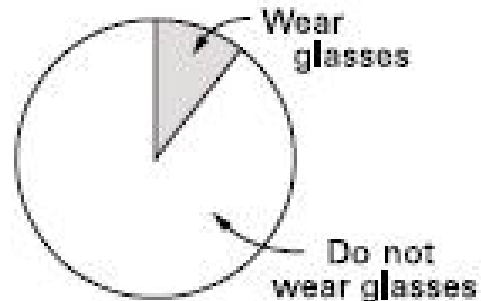
(1 mark)

15. There are **60 pupils** in a school.
6 of these pupils wear glasses.

(a) The pie chart is not drawn accurately.

What should the angles be?

Show your working.



.....^o and^o

2 marks

(b) Exactly **half** of the 60 pupils in the school are boys.

From this information, what **percentage of boys** in this school **wear glasses**?

Tick (✓) the correct box below.

5%

6%

10%

20%

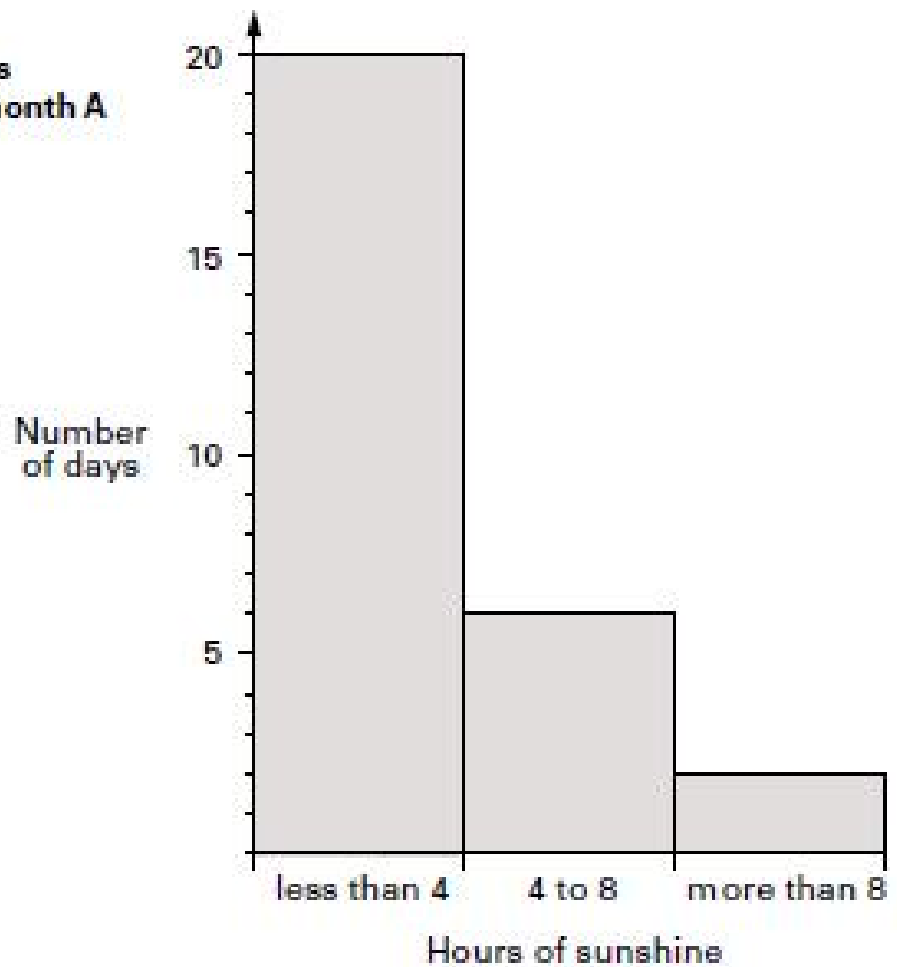
50%

not possible to tell

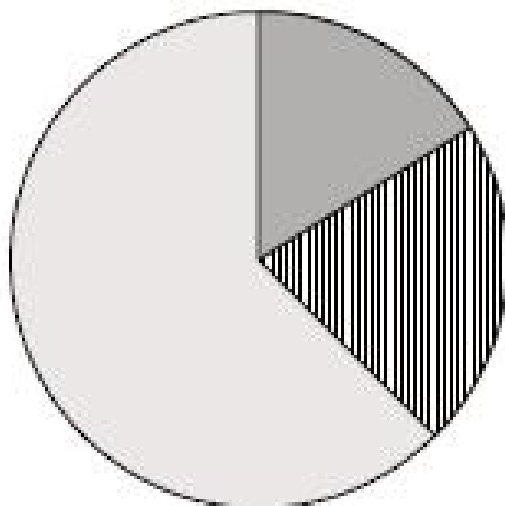
1 mark

12. The diagrams show the number of hours of sunshine in two different months.




Number of hours of sunshine in month A



Number of hours of sunshine in month B



Key:

-  number of days with less than 4 hours
-  number of days with 4 to 8 hours
-  number of days with more than 8 hours

(a) How many days are there in month A?

Tick (✓) the correct box.



28

29

30

31

not possible
to tell

1 mark

(b) How many days are there in month B?

Tick (✓) the correct box.



28

29

30

31

not possible
to tell

1 mark

(c) Which month had more hours of sunshine?

Tick (✓) the correct box.



month A

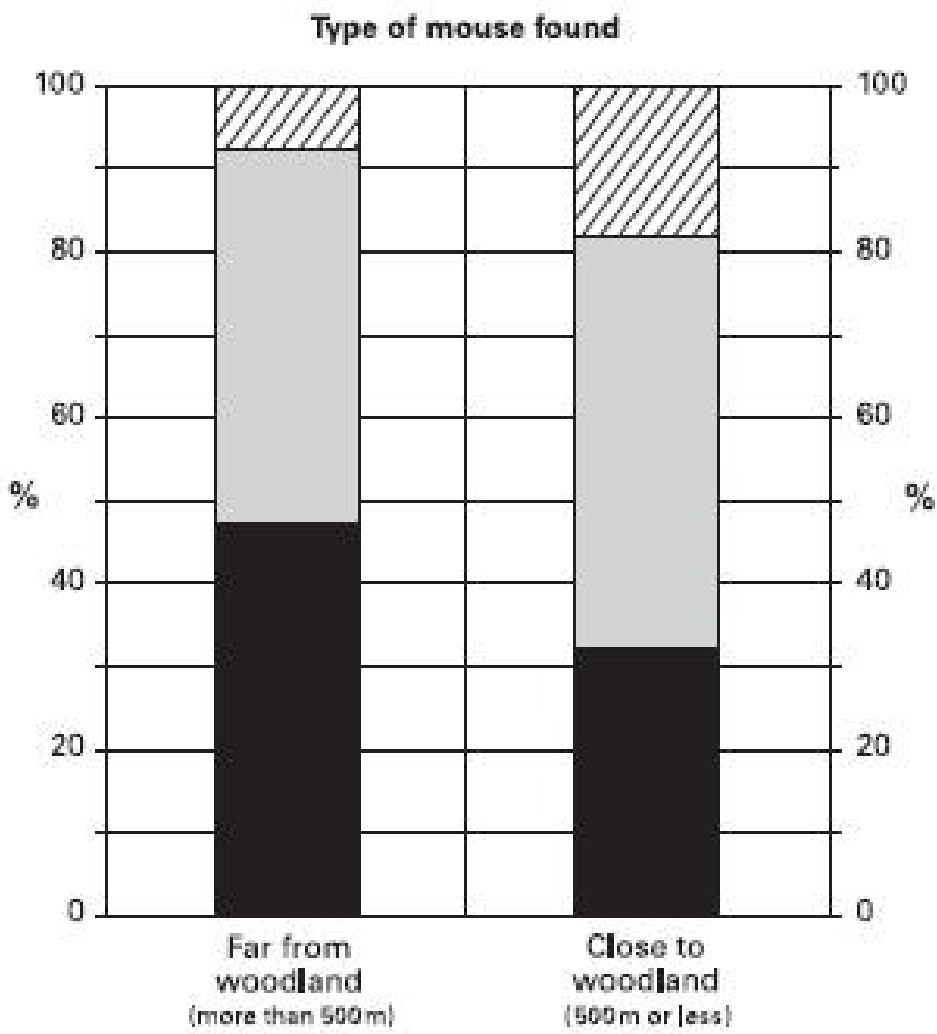
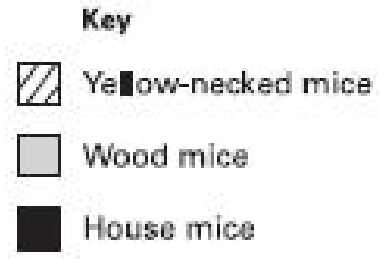
month B

Explain how you know.



1 mark

17. Three types of mice might come into our homes. Some mice are more likely to be found in homes far from woodland. Others are more likely to be found in homes close to woodland. The bar charts show the percentages of mice that are of each type.



Use the bar charts to answer these questions.

- (a) About what percentage of mice in homes **close to woodland** are **wood mice**?

 %

1 mark

- (b) About what percentage of mice in homes **far from woodland** are **not wood mice**?


 %

1 mark

- (c) The **black** bars show the percentages for house mice.
One of the black bars is taller than the other.

Does that mean there **must be more** house mice in homes far from woodland than in homes close to woodland?

Tick (✓) Yes or No.

 Yes No

Explain your answer.



12. Hakan asked 30 pupils which subject they liked best.

Subject	Number of boys	Number of girls
Maths	4	7
English	2	4
Science	3	3
History	0	1
French	1	5
	total 10	total 20

(a) Which subject did 20% of boys choose?



.....

1 mark

(b) Which subject did 35% of girls choose?



.....

1 mark

(c) Hakan said:

'In my survey, Science was equally popular with boys and girls'.

Explain why Hakan was wrong.



1 mark

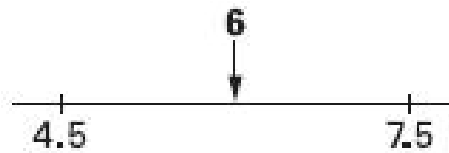
(d) Which subject was equally popular with boys and girls?



.....

1 mark

11. (a) The number 6 is halfway between 4.5 and 7.5



Fill in the missing numbers below.



The number 6 is halfway between 2.8 and

1 mark

The number 6 is halfway between -12 and

1 mark

- (b) Work out the number that is halfway between 27×38 and 33×38
Show your working.

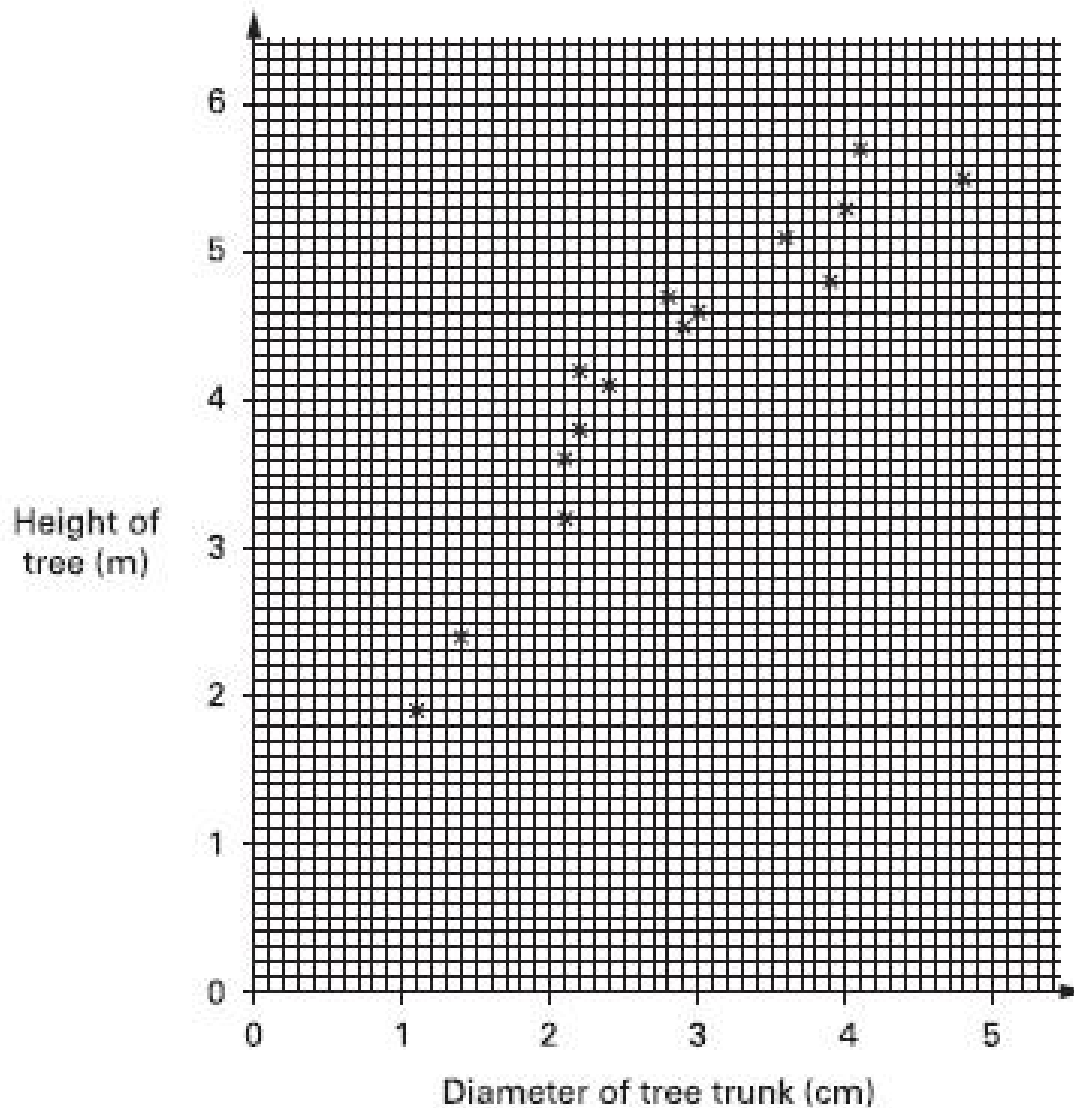


.....

.....

2 marks

22. The scatter graph shows information about trees called poplars.



- (a) What does the scatter graph show about the **relationship** between the diameter of the tree trunk and the height of the tree?



(b) The height of a different tree is 3m. The diameter of its trunk is 5cm.
Use the graph to explain why this tree is **not** likely to be a poplar.



.....
1 mark

(c) Another tree is a poplar. The diameter of its trunk is 3.2 cm.
Estimate the height of this tree.



..... m

.....
1 mark

13. (a) There are four people in Sita's family.
Their shoe sizes are 4, 5, 7 and 10

What is the **median** shoe size in Sita's family?



1 mark

- (b) There are **three** people in John's family.
The **range** of their shoe sizes is **4**
Two people in the family wear shoe size 6
John's shoe size is **not 6** and it is **not 10**

What is John's shoe size?



1 mark

12. (a) Look at these three numbers.



Show that the **mean** of the three numbers is **10**



1 mark

Explain why the **median** of the three numbers is **10**



1 mark

(b) Four numbers have a mean of 10 and a median of 10, but **none** of the numbers is 10

What could the four numbers be?

Give an example.

A small black pencil icon pointing downwards and to the right.
Four empty rounded rectangular boxes are arranged horizontally, intended for the student to write an example of four numbers.

1 mark