Q1.

6 children were asked if they liked some kinds of fruits.

They had to say 'yes' or 'no'.

✓	yes
✗	no

4 children liked oranges; 2 children did not like oranges.

Show this on the table.

apples	✓ ✗ ✗ ✓ ✓ ✓
pears	✓ ✗ ✓ ✗ ✓ ✓
grapes	✓ ✓ ✗ ✓ ✓ ✓
bananas	✓ ✓ ✓ ✓ ✓ ✓
oranges	

1 mark

Q2.

Look at the information in these two pie charts.

Pupils in class 6K

Key:

☐ (grey) Girls

☐ (white) Boys

Girls in class 6K

Key:

11 years old

Not 11 years old
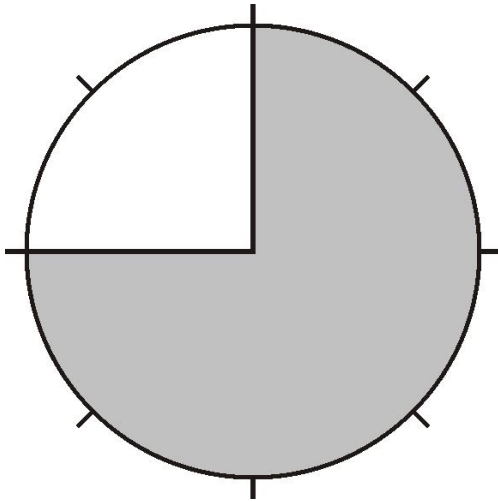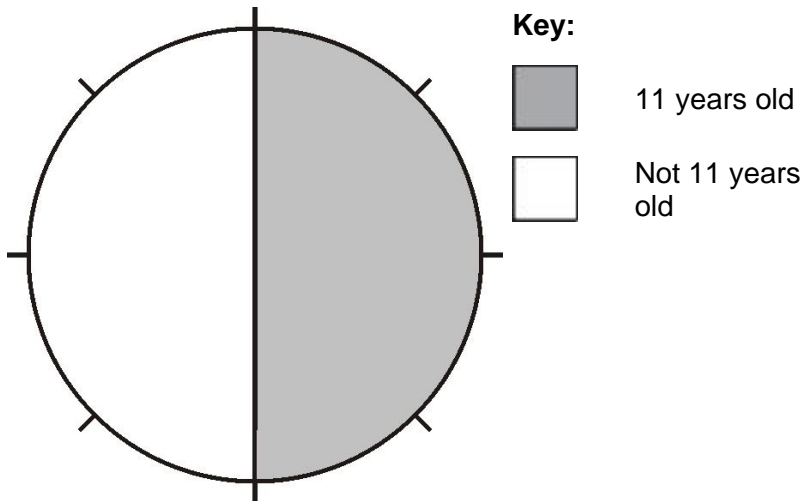
Use the information in the two pie charts to complete the pie chart below.

Pupils in class 6K

Key:

11 years old girls

All other pupils in the class
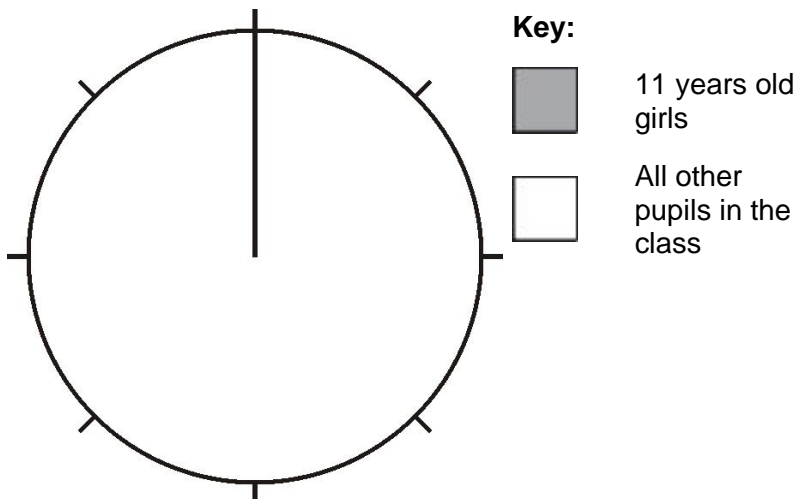
Q3.

Five children made a graph.

Our height in centimetres
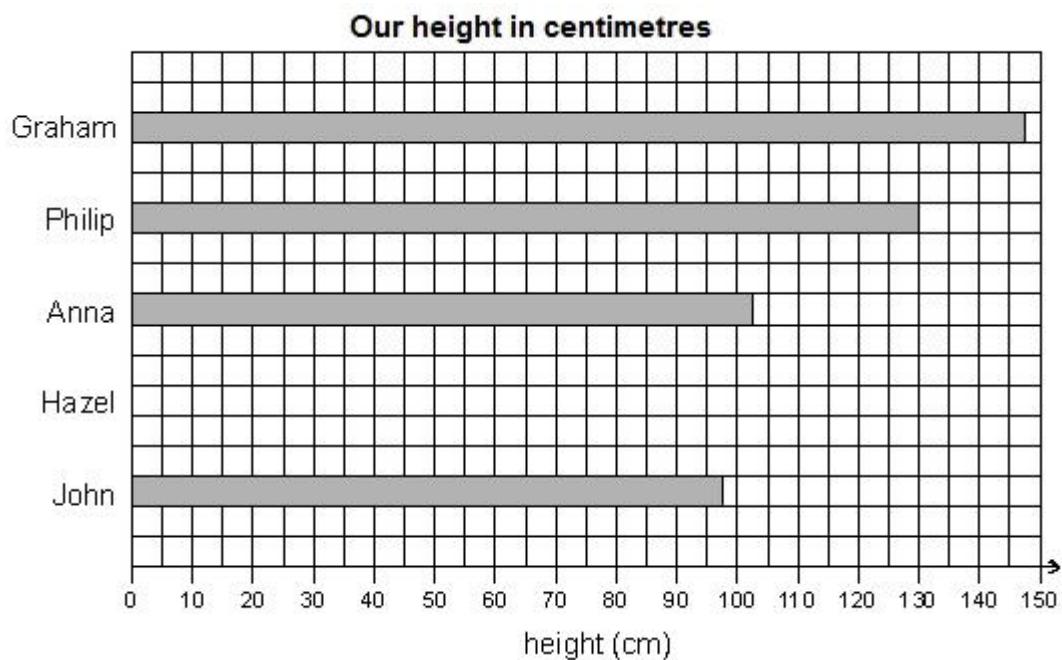
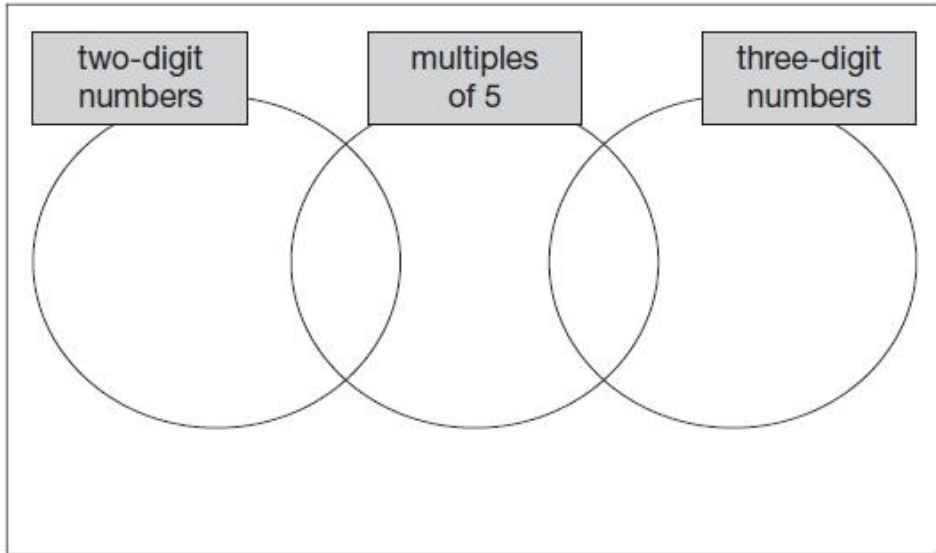Hazel is 135 cm tall.

Show this on the graph.

Q4.

Here is a diagram for sorting numbers.

Write **each** number in its correct place on the diagram.

2   20   201   2000

2 marks

Q5.

There are 90 children in Year 6 at Woodland Junior School.

They are split into three classes.

Class	Number in class
6M	27
6P	33
6T	30

Each child chose football **or** netball **or** hockey.

In **6M**, 13 children chose hockey.
The rest of the class were split equally between football and netball.

In **6P**, 9 children chose netball.
Twice as many children chose football as chose hockey.

In **6T**, the ratio of children who chose
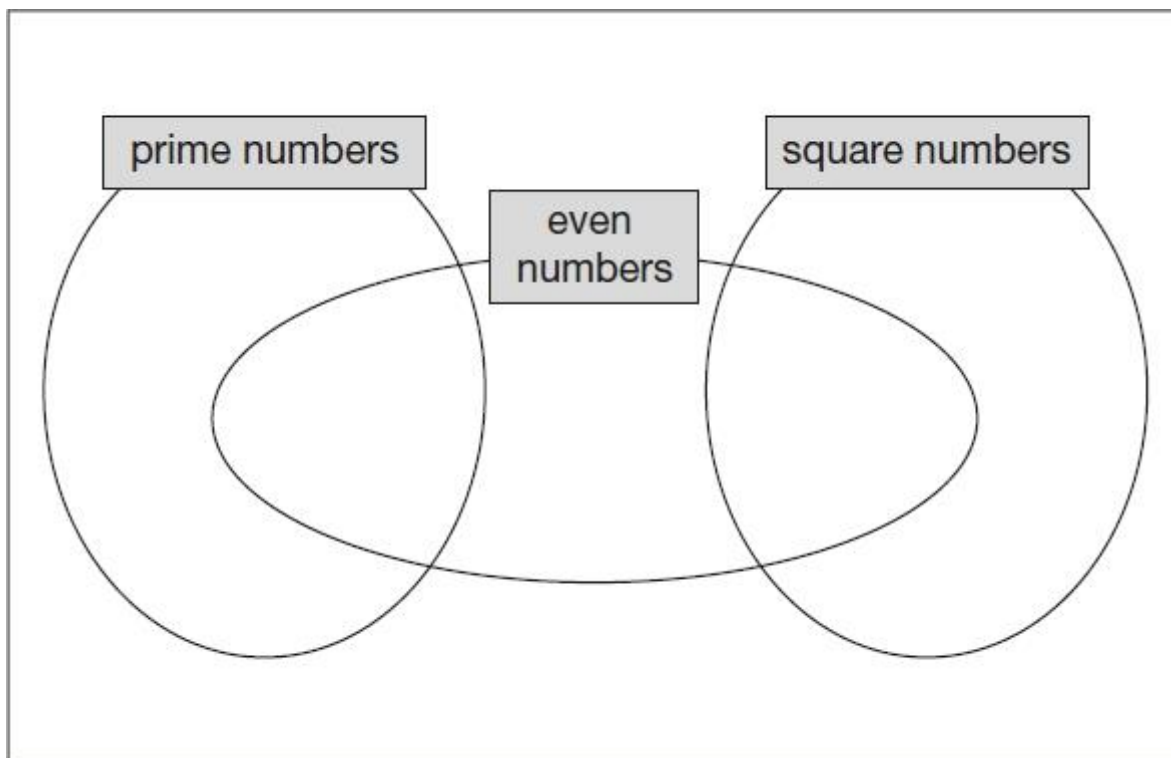football to netball to hockey was 1:2:3

Complete this table.

Class	Number in class	Football	Netball	Hockey
6M	27			13
6P	33		9	
6T	30			

Q6.

Write each number in its correct place on the diagram.

16   17   18   19

2 marks

Q7.

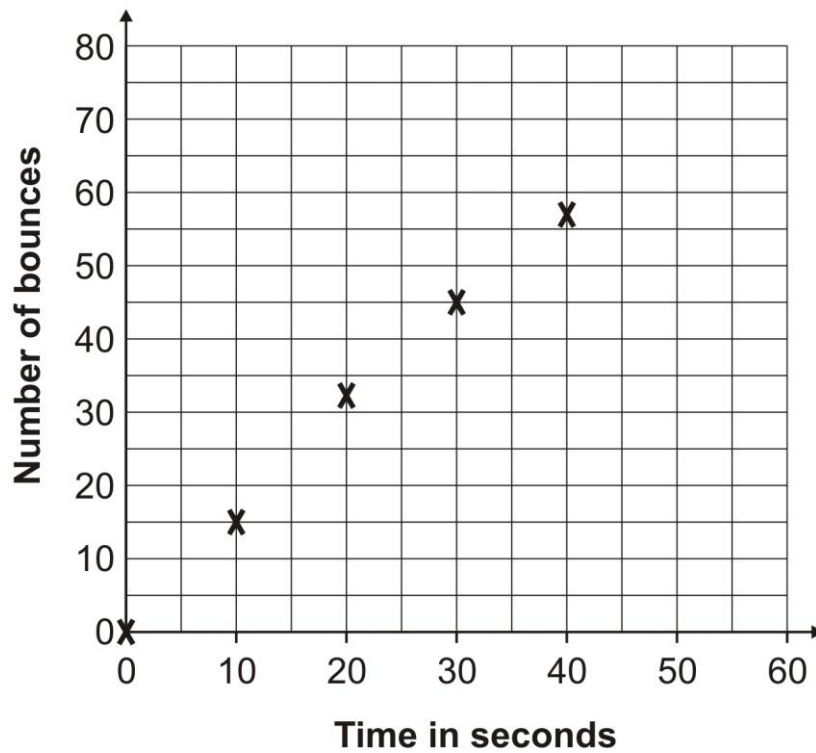Here is a diagram for sorting numbers.

Write **one number** in each box.

One is done for you.

	multiple of 5	**not** a multiple of 5
multiple of 3	30	
not a multiple of 3		

2 marks

Q8.

Mandy bounces a ball. She plots the results on this graph.

After 50 seconds Mandy has done 65 bounces.
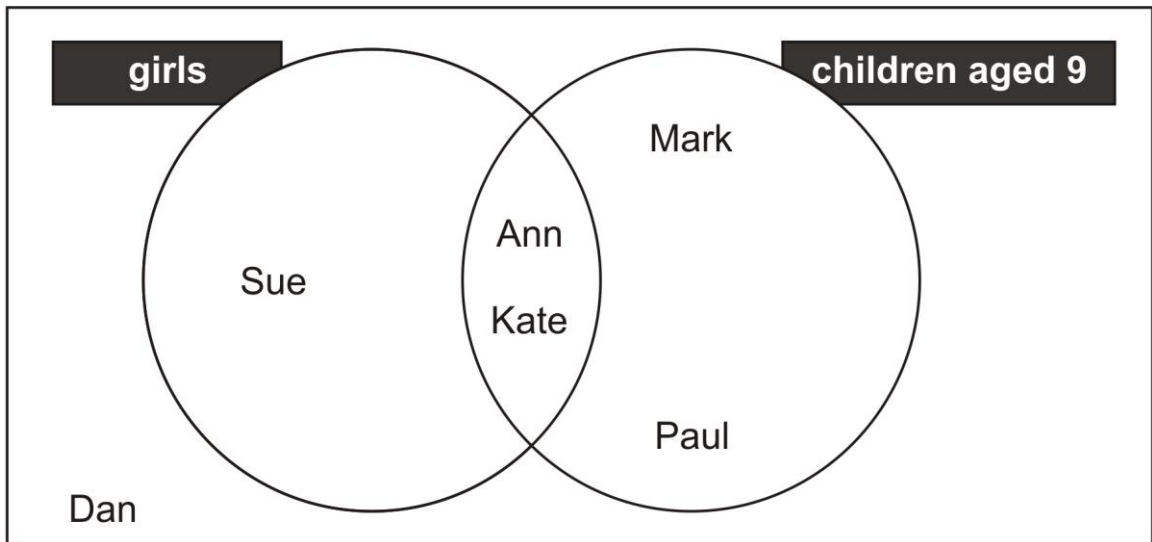
(a) **Plot** this on the graph.

(b) **Use the graph** to estimate the number of bounces Mandy has done after **35 seconds.**

1 mark

Q9.

A group of 6 children sorted themselves into these sets.

Complete the table for the group.

Boys		Girls	
Name	Age	Name	Age
Mark	9		9
	8	Ann	
	9		8

Q10.

Megan likes honey, but not jam.

Alfie likes honey and jam.

Chen does not like honey or jam.

Donna only likes jam.

Write the children's names in the correct parts of the sorting diagram.

	likes honey	does **not** like honey
likes jam		

does **not** like jam		

Q11.

Four children run in a race.

Gemma takes 5 minutes 20 seconds.

Complete the graph for Gemma.

Time taken to run the race
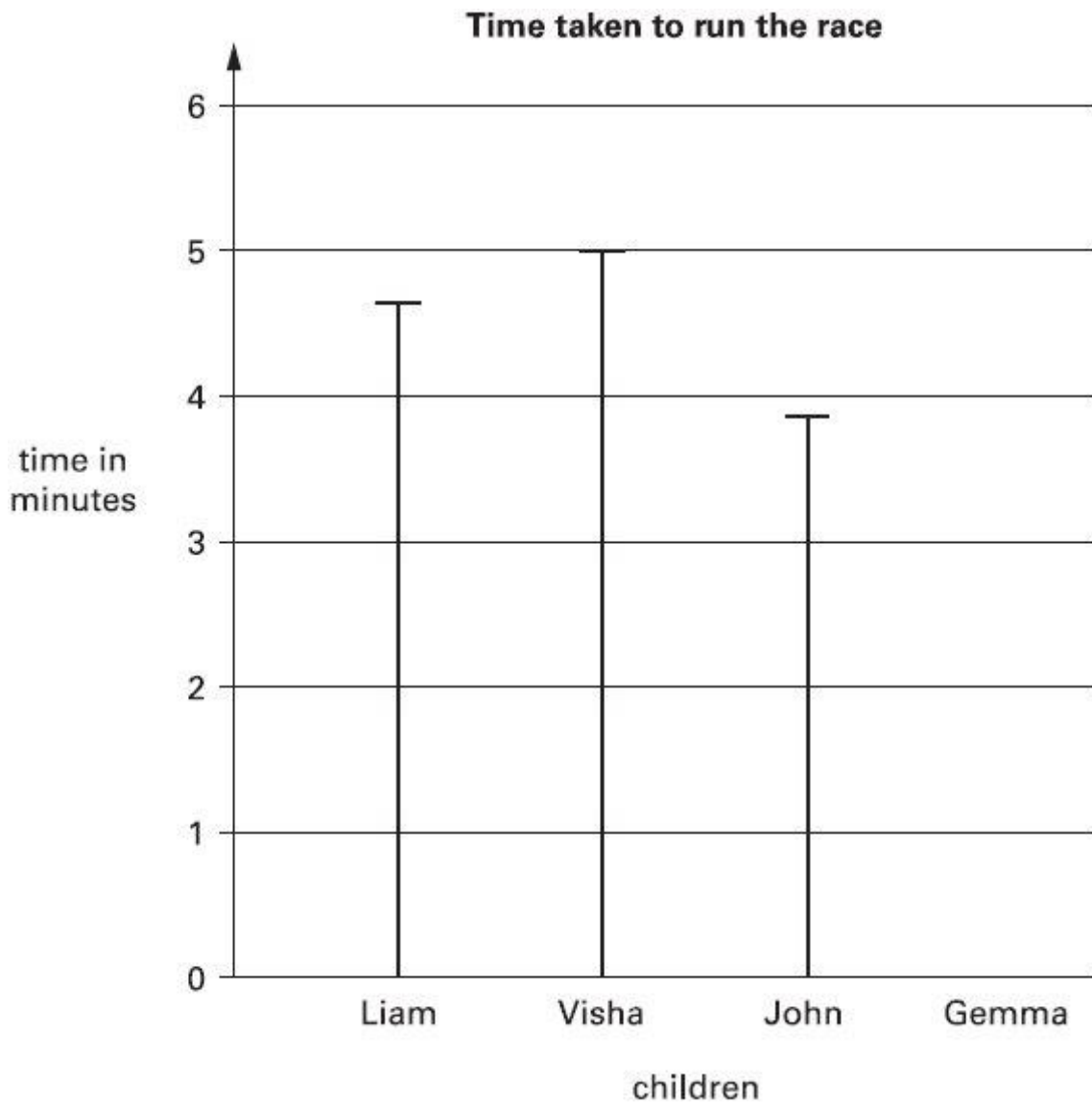
Q12.

This picture shows the masses of eight kittens.

305 g   375 g   310 g   255 g

275 g   410 g   360 g   345 g
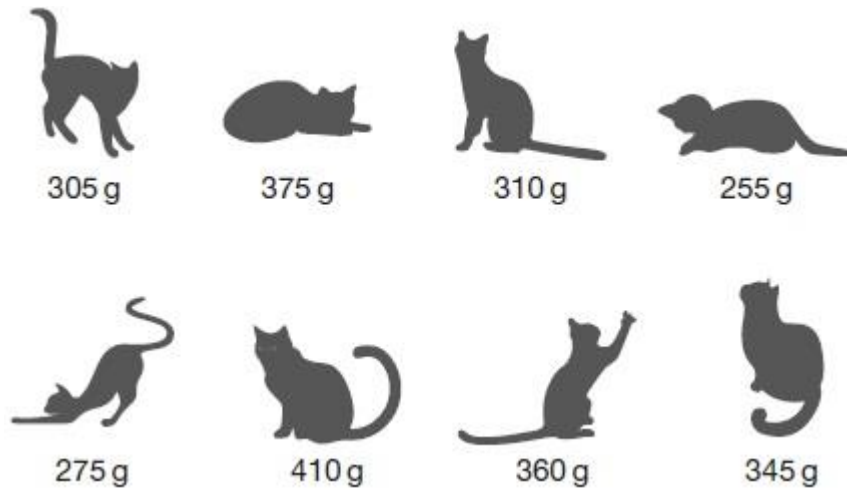
What is the **difference** in mass between the heaviest kitten and the lightest kitten?

g

1 mark

The masses of the kittens are to be put in four groups.

Write the missing numbers in the table.

One has been done for you.

Mass in g	Number of kittens
250-299	
300-349	
350-399	
400-449	1

1 mark

Mark schemes

Q1.

4 ticks and 2 crosses on table for oranges

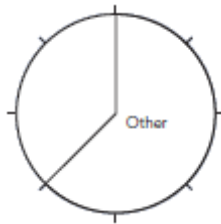*Ticks and crosses can be in any order.*

[1]

Q2.

Divides the pie chart into two correct sectors and shades/labels correctly, eg

-

Accept unambiguous indication of shading/labelling, eg

-

! Given key ignored
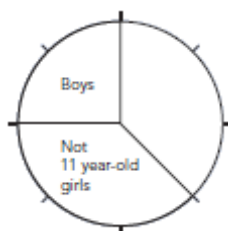*Condone incorrect shading provided their labelling is unambiguous*
eg, accept

-

! Additional sectors shown
Ignore provided the sector(s) for 11 year-old girls are clearly indicated
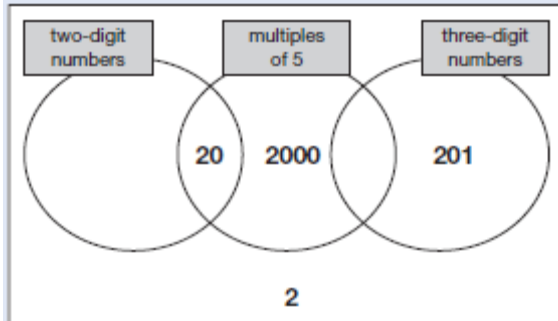*eg, accept*

-

[1]

Q3.

Hazel's height (135 cm) correctly shown on graph

[1]

Q4.

Award **TWO** marks for all four numbers correctly placed as shown:

If the answer is incorrect, award **ONE** mark for three numbers correctly placed.

> ***Do not*** *accept numbers written in more than one region.*
>
> *Accept alternative unambiguous indications, eg lines drawn from the numbers to the appropriate regions of the diagram.*

Up to 2m

[2]

Q5.

Completes all 7 entries in the table correctly, ie:

	No.	Football	Netball	Hockey
6M	27	**7**	**7**	13
6P	33	**16**	9	**8**
6T	30	**5**	**10**	**15**

2

or

Completes the first two rows (6M & 6P) correctly
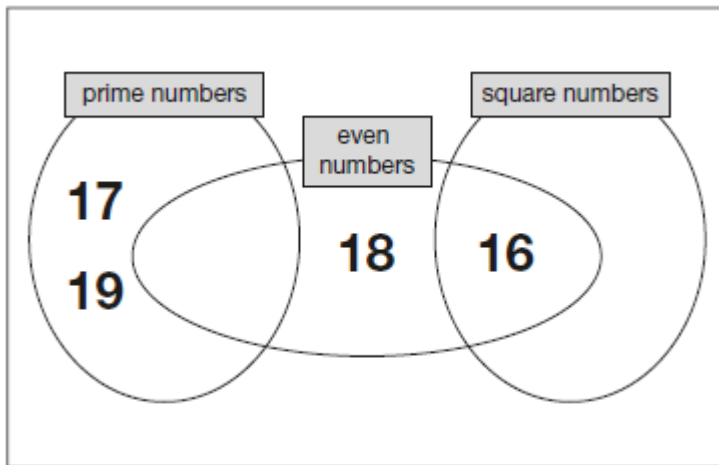
OR

Completes the third row (6T) correctly
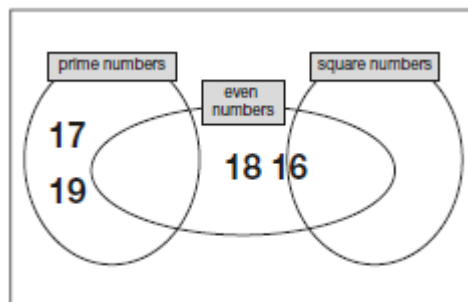
1

[2]

Q6.

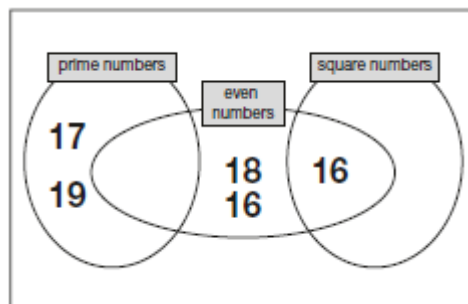Award **TWO** marks for all four numbers placed correctly as shown:

If the answer is incorrect, award **ONE** mark for three numbers placed correctly.

Accept alternative unambiguous indications, e.g. lines drawn from the numbers to the appropriate regions of the diagram.

Do not *accept numbers written in more than one region, e.g.*

prime numbers   square numbers

even
numbers

17

18 16

19

OR

prime numbers   square numbers

even
numbers

17

18   16

19   16

Up to 2m

[2]

Q7.

Award **TWO** marks for three boxes completed correctly, e.g:

	multiple of 5	**not** a multiple of 5
multiple of 3	30	**3, 6, 9 etc**

not a multiple of 3	**5, 10, 20 etc**	**1, 2, 4, 7 etc**

If the answer is incorrect, award **ONE** mark for at least
two boxes completed correctly.

> *Accept more than one correct multiple in any box.*
>
> ***Do not*** *accept any box containing a correct multiple and an incorrect number.*

Up to 2

[2]

Q8.

(a)   X drawn at point (50, 65); intersection of two lines representing 50 seconds and 65 bounces.

> *Do not accept point (65, 50).*

1

(b)   Accept any answer in the range of 48-53 bounces.

1

[2]

Q9.

Boys		Girls	
Name	Age	Name	Age
Mark	9	**Kate**	9
Dan	8	Ann	**9**
Paul	9	**Sue**	8

1 mark for writing Dan and Paul in the correct spaces on the table.

> *Write 1 or 2 for score for question 10*

1

1 mark for writing Kate, Sue and 9 in the correct places on the table.

> *No other combination of correct/incorrect answers is acceptable.*

1

[2]

Q10.

Award **TWO** marks for four names correctly placed on the diagram as shown:

Alfie	Donna

Megan	Chen

If the answer is incorrect, award **ONE** mark for three names correctly placed.

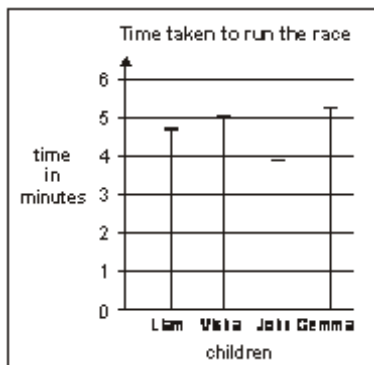*Accept unambiguous abbreviations or recognisable misspellings.*

Do not *accept names written in more than one section.*

Up to 2

[2]

Q11.

Graph completed as shown:

Line drawn between 10.4 cm and 10.9 cm inclusive.

Accept slight inaccuracies in drawing, provided the intention is clear.

Accept line drawn with or without a horizontal finish.

[1]

Q12.

(a)   155

1

(b)   Table completed with three correct numbers, as shown:

Mass in g	Number of kittens
250-299	**2**
300-349	**3**
350-399	**2**
400-449	1

All three numbers must be correct for the award of the mark.

Do not *accept tally marks on their own.*

1

[2]