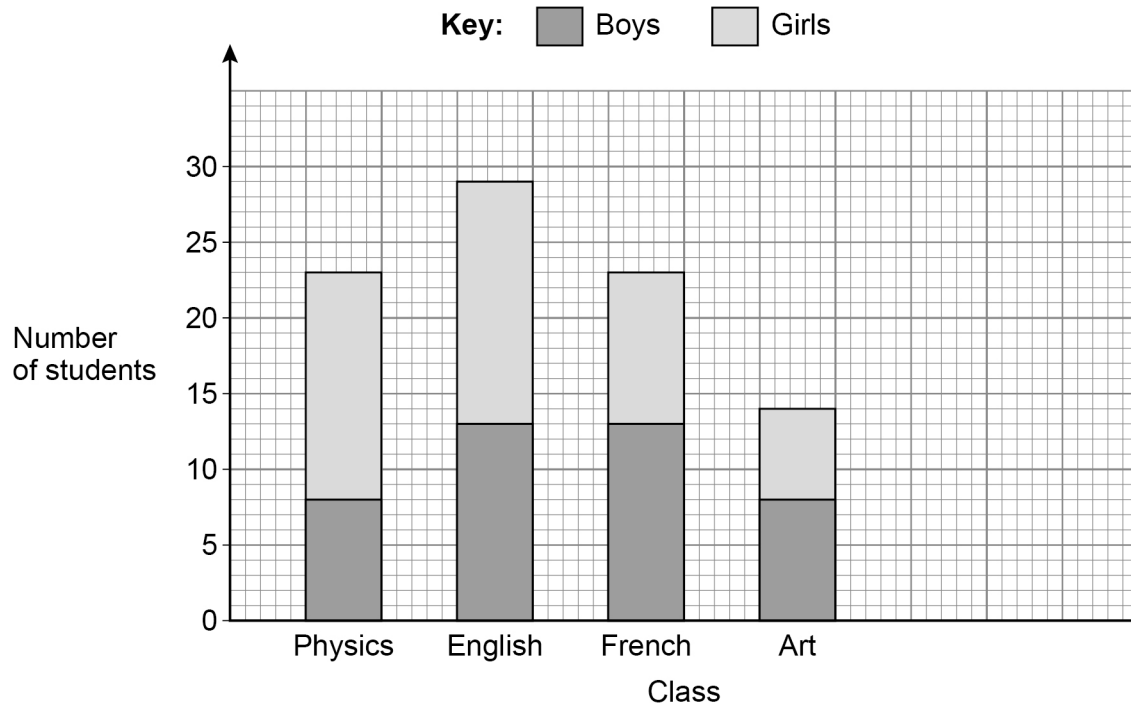**1**   The composite bar chart shows the number of students in some classes.

1 **(a)**   How many boys are in the Physics class?

[1 mark]

Answer _____

1 **(b)**   How many girls are in the English class?

[1 mark]

Answer _____

1 **(c)**   Which **two** classes have the same total number of students?

[1 mark]

Answer _____ and _____

1 (d)   In the History class

there are 18 students

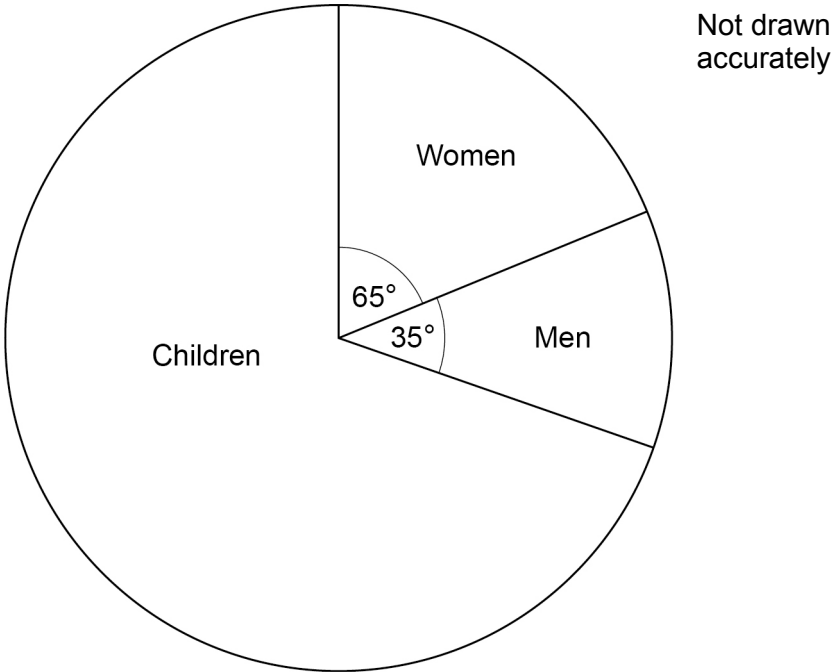number of boys = number of girls

Show this information on the bar chart.

[2 marks]

2   The pie chart shows information about people at a theme park.

Not drawn
accurately

Women

Children

65°

35°

Men

There were 450 **more** women than men.

Work out the number of children.

[3 marks]

_____

_____

_____

_____

_____

_____

Answer _____

3 Katy records the number of cars using a drive-through each hour for 24 hours.

Here are the results.

36	20	37	53	42	41	24	18	39	35	40	47
38	17	23	18	13	35	10	7	6	18	31	57

Katy makes this tally and frequency chart to put the data into groups.

Number of cars	Tally	Frequency
0 to 10		
10 to 20		
20 to 30		
30 to 40		
40 to 50		

Make **two** criticisms of Katy's tally and frequency chart.

You do **not** need to complete the chart.

[2 marks]

Criticism 1 _____

_____

_____

Criticism 2 _____

_____

_____

4   16 people were asked to name their favourite fruit juice.

Here are the results.

Favourite juice	Frequency
Apple	6
Grapefruit	1
Orange	4
Mango	5

4 (a)   On the grid, draw a bar chart to represent the results.
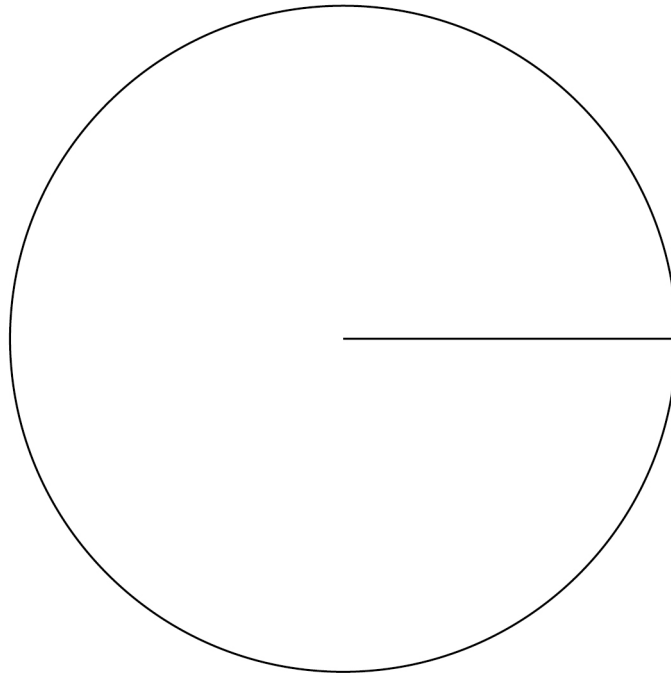
[3 marks]

Favourite juice

5   60 people were asked if they would vote in an election.

- $\frac{1}{4}$ of the people said No

- 20 people said Yes

- The rest said Maybe

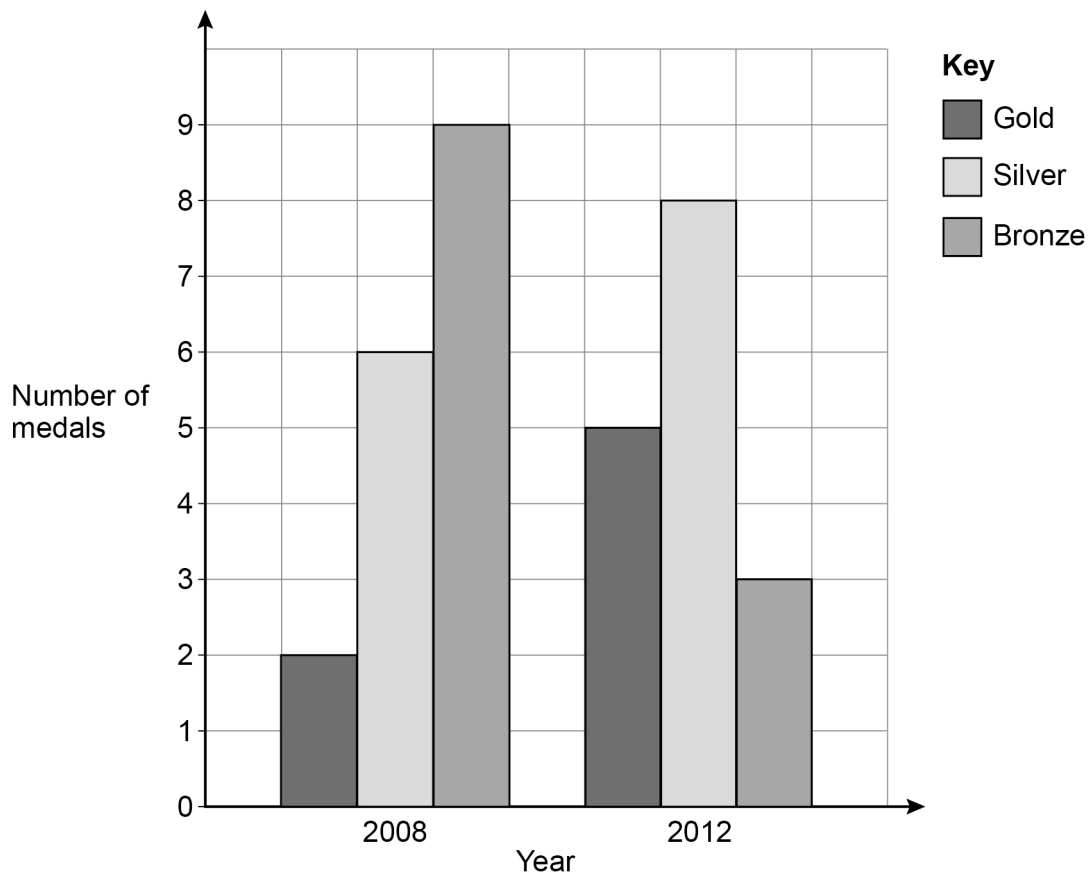Draw and label a pie chart to show this information.

[3 marks]

_____

_____

_____

_____

_____

_____

6 The bar chart shows the number of medals won by a country at events in 2008 and 2012

6 (a) Complete this statement about the medals won by the country in 2008

[1 mark]

number of Silver medals = _____ × number of Gold medals

6 (b)   Show that the country won **more** medals in 2008 than in 2012

[2 marks]

_____

_____

_____

_____

_____

6 (c)   At the 2016 event the country won an **equal** number of each type of medal.

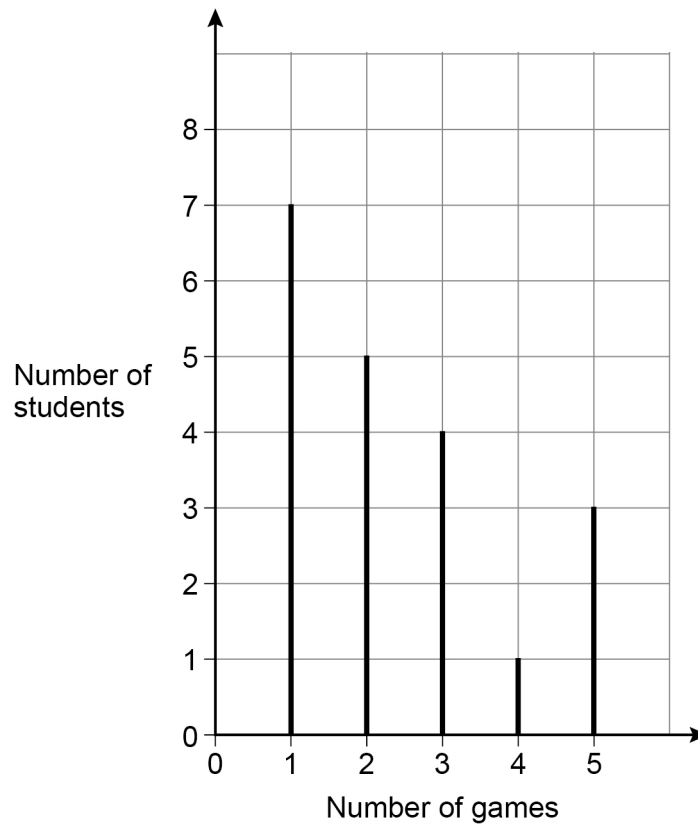Here is a statement about the medals won by the country in 2016

> The total number of medals **cannot** be 25

Give a reason why the statement is correct.

[1 mark]

_____

_____

_____

7   20 students are asked how many video games they played last month.

The chart shows information about the results.

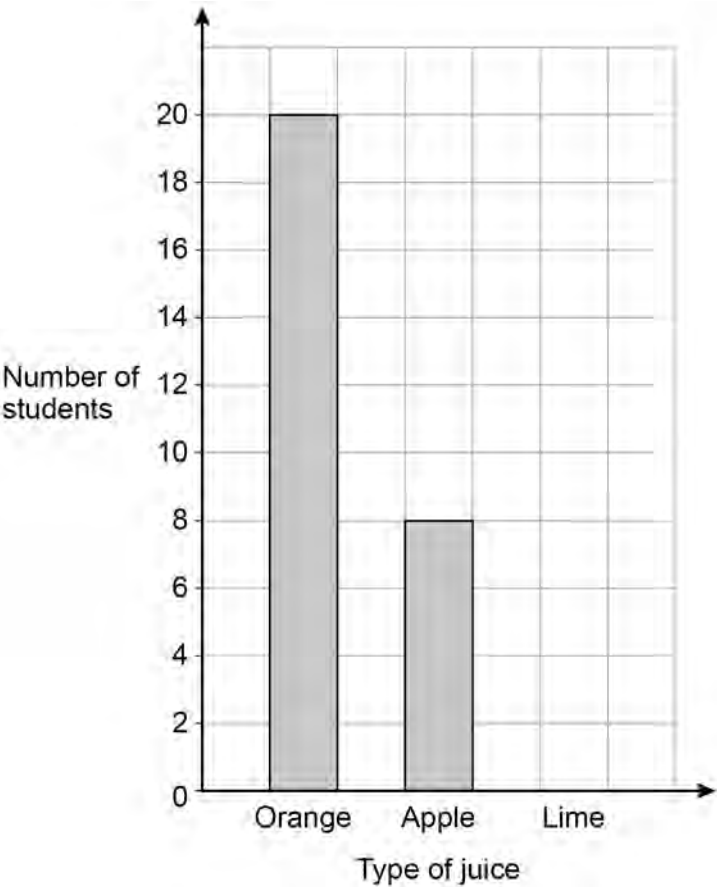**7 (a)**   How many students played **more** than 2 games?

[1 mark]

_____

Answer _____

7 (b)   Work out the mean number of games played.

Give your answer as a decimal.

[3 marks]

Answer _____

8   Students choose juice with their school meal in the ratio
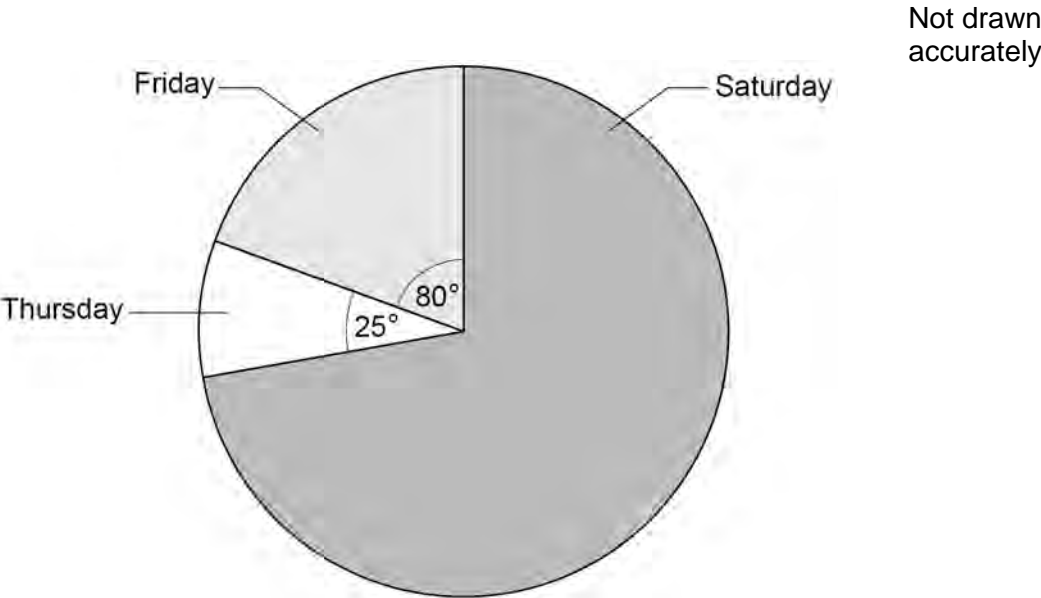
orange : apple : lime $= 5 : 2 : 3$

Complete the bar chart.

[3 marks]

9   The pie chart shows information about people at a fair during three days.
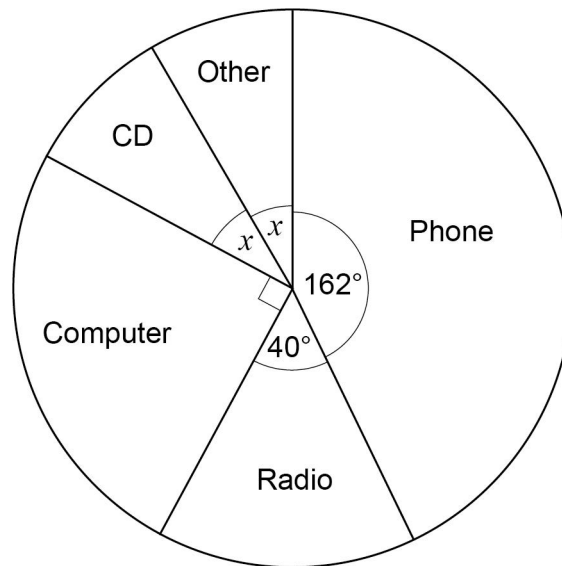
Not drawn
accurately

There were 132 **more** people on Friday than on Thursday.

Work out the number of people on Saturday.

[3 marks]

_____

_____

_____

_____

_____

_____

Answer _____

10   Some people were asked for the main way they listen to music.

A pie chart is drawn to represent their answers.

Not drawn
accurately

10 (a)   Work out the size of angle x.

[2 marks]
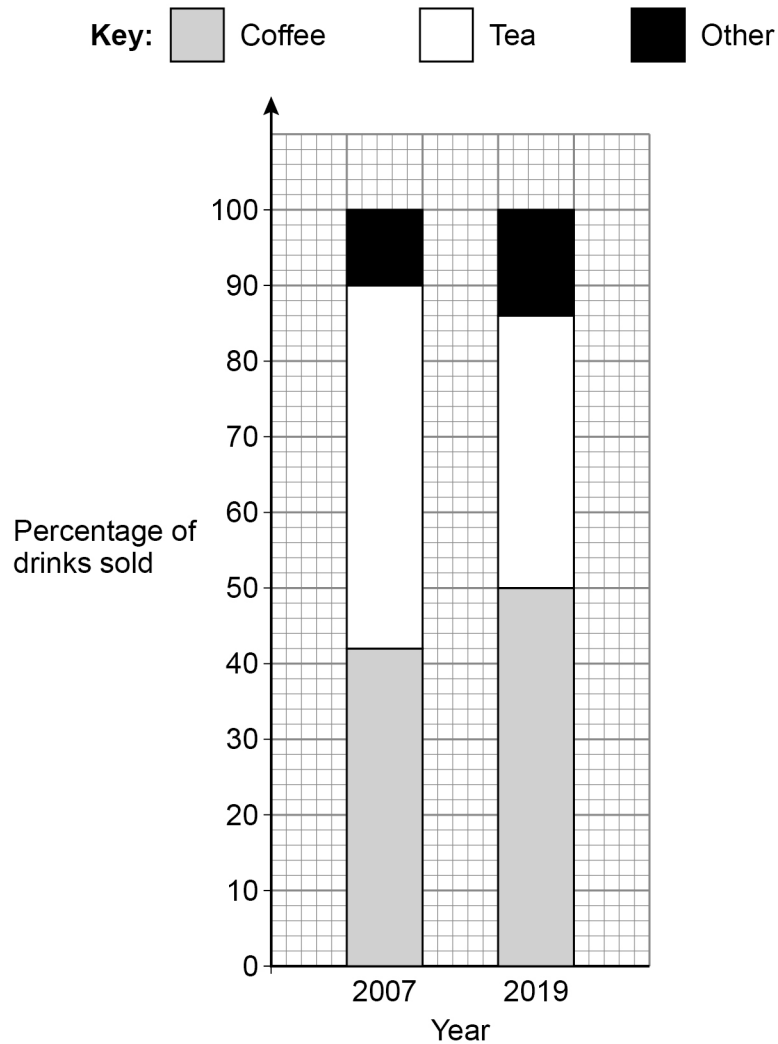
Answer _____ degrees

10 (b)   135 people said Computer.

How many people said Phone?

[3 marks]

Answer _____

11 The composite bar chart shows information about the **percentage** of drinks sold by a café in 2007 and 2019

11 (a) In 2007 the café sold a total of 24 000 drinks.

How many **more** teas than coffees were sold?

[2 marks]

Answer _____

11 (b)   Were more coffees sold at the café in 2019 than in 2007 ?

Tick a box.

☐ Yes   ☐ No   ☐ Cannot tell

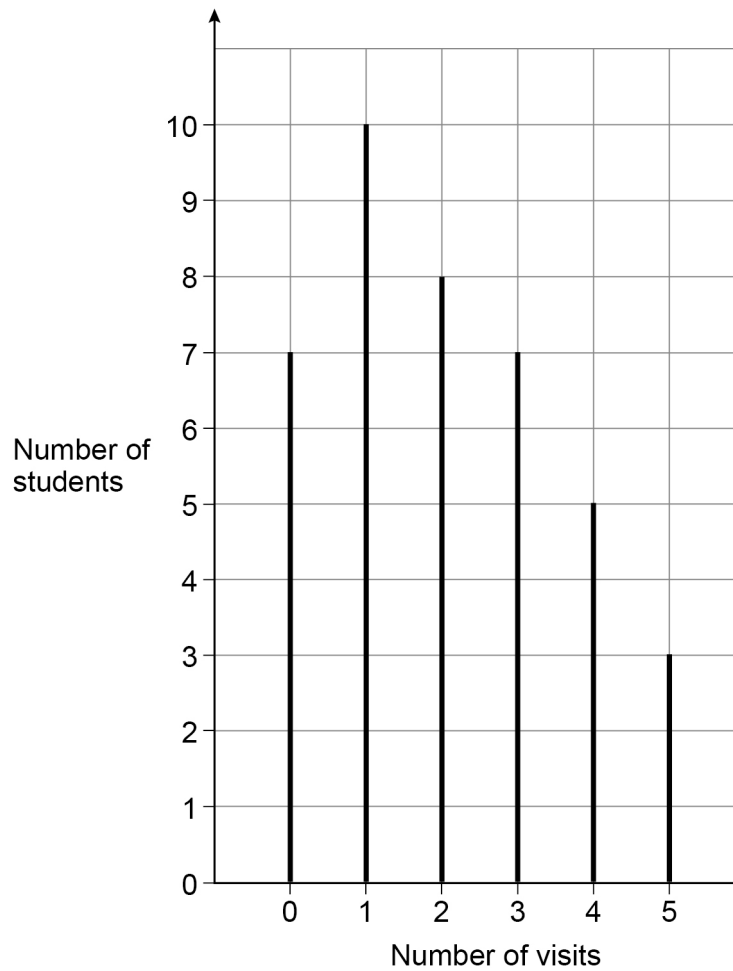Give a reason for your answer.

[1 mark]

_____

_____

_____

12   40 students were asked the number of visits they made to a gym one week.

The chart shows information about the results.

12 (a)   Write down the modal number of visits.

[1 mark]

Answer _____

12 (b)   Work out the mean number of visits.

Give your answer as a decimal.
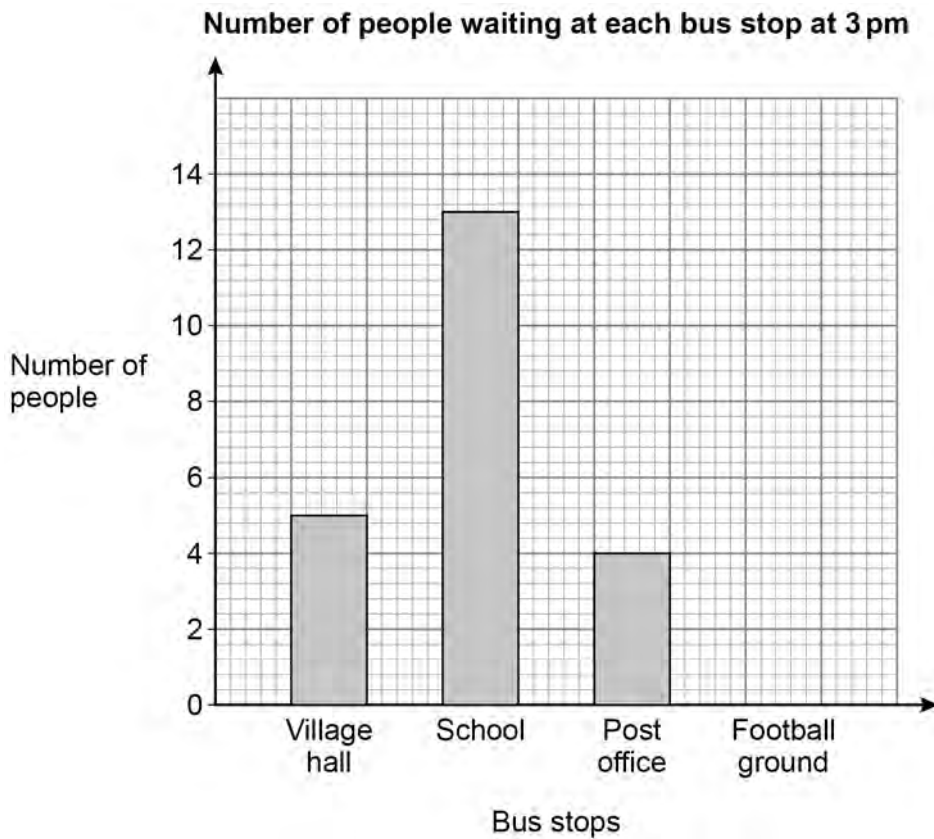
[3 marks]

Answer _____

12 (c)   One of the 40 students is chosen at random.

Work out the probability that the student visited the gym **at least** once.

[2 marks]

Answer _____

13   A village has four bus stops.

The bar chart shows information about the people at the bus stops at **3 pm** one day.

Number of people waiting at each bus stop at 3 pm

13 (a)   Two people were at the Football ground bus stop.

Show this information on the bar chart.

[1 mark]

13 (b)   How many **more** people were at the School bus stop than at the Post office bus stop?
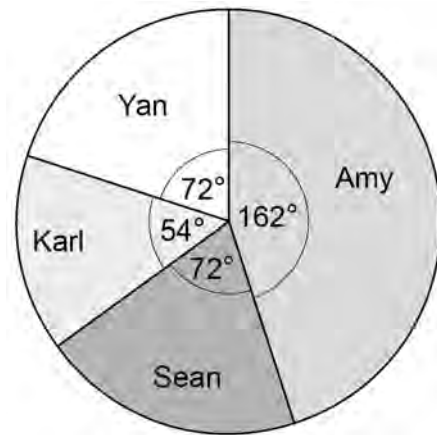
[1 mark]

Answer _____

14   Four people are taking part in a television talent show.

Here are Amy's marks from the 6 judges.

8	9	9	6	9	10

The pie chart represents the phone vote.

Amy's total score is found by

4 × the **mean** of her marks

+

her **percentage** of the phone vote

Work out Amy's total score.

[4 marks]

Answer