Statistics
6.2

Total Marks (out of 16)	

Name	
Date	

Section 1:

interpret and construct pie charts and line graphs and use these to solve problems

1 This pie chart shows how the children of Class 6 travel to school.
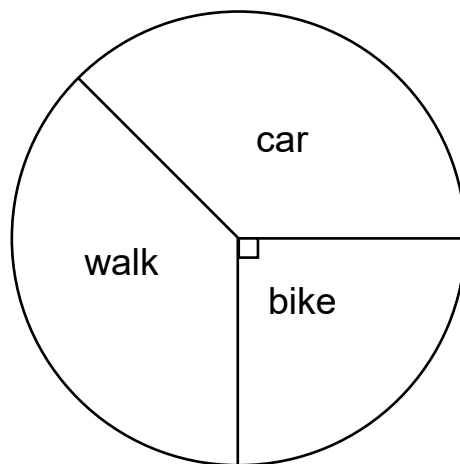
There are 8 children that travel to school by bike.

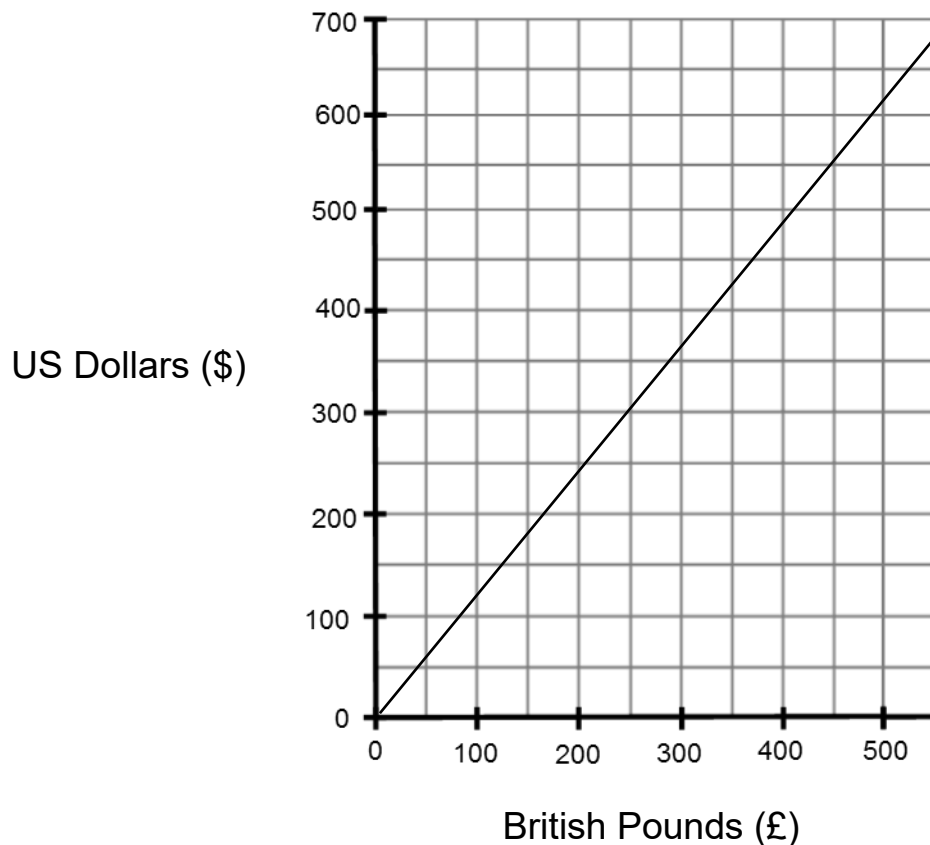How many children are there in Class 6?

_____
1 mark

There are 36 children at an after school club. Beth is making a pie chart to show the proportion of boys and girls. There are 20 girls at the club.

Calculate the angle for **boys** in her pie chart.

°

_____
1 mark

v1 created 23/11/16

2 This graph converts British Pounds (£) to United States Dollars ($).

US Dollars ($)

British Pounds (£)

Approximately how many Dollars ($) would you get for £200?

$ [_____]

1 mark

Approximately how many Pounds (£) would you get for $100?

£ [_____]
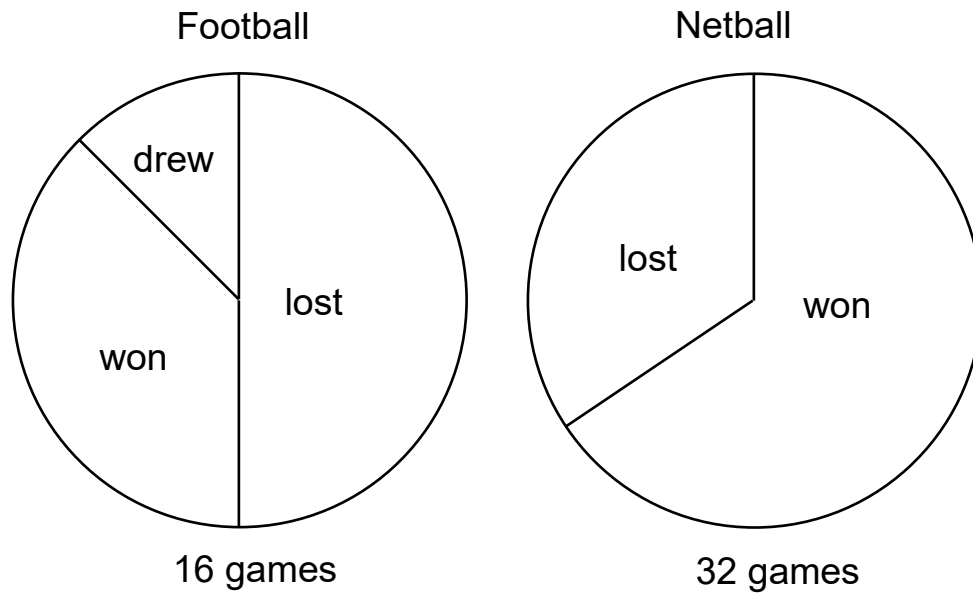
1 mark

The Jones family went on holiday to America.

They exchanged £500 into Dollars before the left.

When they returned they had $150 remaining.

Approximately how many Dollars did they spend while in America?

$ [_____]

1 mark

3 These pie charts show the results of a school's football and netball teams in a year.

Football   Netball

drew

lost

won

lost

won

16 games   32 games

The football team drew 2 games.

How many games did the football time **win**?

1 mark

Which team lost more games? Explain how you know.

1 mark

v1 created 23/11/16

4 Zac and his family went for a walk. The graph shows the distance they travelled. They set off at 12:15pm.
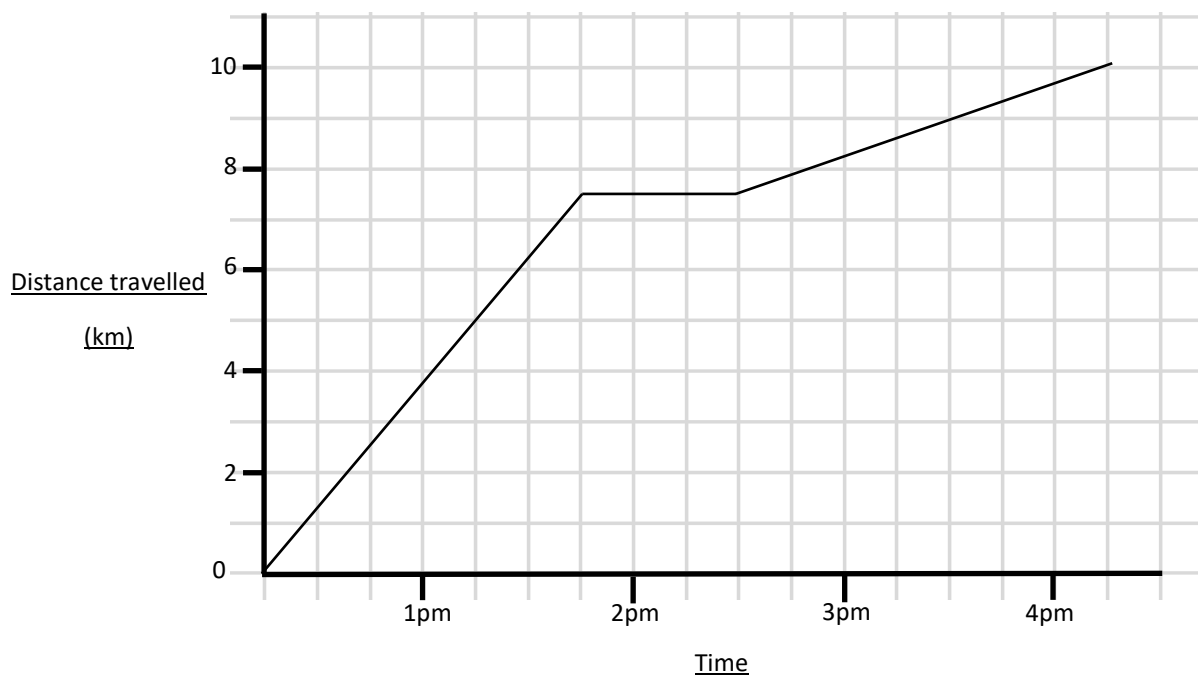
What was the time when Zac had walked 5 km?

_____
1 mark

At what time did Zac take a break?

_____
1 mark

How long did the break last?

minutes

_____
1 mark

Estimate how far he had walked by 3.15pm.

km

_____
1 mark

Section 2:

calculate and interpret the mean as an average

5 Marcus threw a tennis ball 3 times.

He measured the distance and rounded to the nearest metre.

	Throw 1	Throw 2	Throw 3
Distance (metres)	12	15	12

What was the mean average distance he threw?

m

1 mark

6 Eve ran 100 metres four times. These are her times in seconds.

16.6   15.5   15.2   17.1

What was her mean average time?

Show your method

2 marks

7 This is the Smith family.

Ellie	Mr Smith	Mrs Smith	Jack
10 years old	? years old	40 years old	8 years old

The **mean** average of their ages is **25 years**.

How old is Mr Smith?

years old

_____
1 mark

8 Here are four cards.

Write a number on the 4th card to make the mean average 2

-5   10   -1

_____
1 mark

v1 created 23/11/16