2.17 Pie Charts: 10-minute Pack

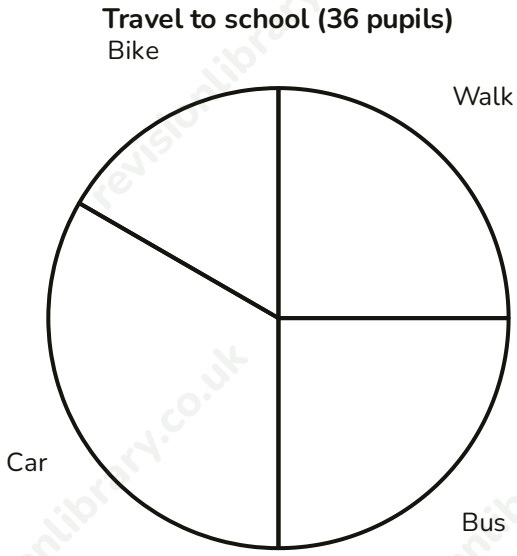
EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 36 pupils were asked how they travel to school. The pie chart shows the results.



(a) Write down the method of travel used by the fewest pupils. **(1)**

.....

(b) Work out the number of pupils who travel by Bike. **(2)**

.....

(Total for Question 1 is 3 marks)

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2 A pie chart is divided into 4 equal sectors, each showing a different colour of car sold by a garage. What fraction of the pie chart does each sector represent?

- ☐ A) 1/2
- ☐ B) 1/3
- ☐ C) 1/4
- ☐ D) 1/8

(Total for Question 2 is 1 mark)

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3 A local choir sang three types of song at a concert. 1/6 of the songs were folk songs. Work out the angle that should be used for the folk songs sector in a pie chart. Give your answer in degrees.

(Total for Question 3 is 1 mark)

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4 In a pie chart, the sector for Netball represents 18 people and has an angle of 60 degrees. Work out the total number of people surveyed.

(Total for Question 4 is 3 marks)

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Mark scheme · 2.17 Pie Charts: 10-minute Pack

Question 1

(a) Bike cao	**B1**

(a) Answer: Bike

(b) 60/360 x 36 oe	**M1**
(b) 6 cao	**A1**

(b) Answer: 6

Question 2

C (1/4) cao	**B1**

Answer: C) 1/4

Question 3

60 degrees cao	**B1**

Answer: 60 degrees (1/6 of 360 = 60 degrees).

Question 4

18/60 oe (people per degree), or 360/60 oe	**M1**
their people-per-degree x 360, or 18 x their (360/60)	**M1**
108 cao	**A1**

Answer: 108

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