

Topic Test 1 (20 minutes)

Collecting and representing data - Higher

1 The diagram shows the number of goals scored by a team with their old manager.



The team had a new manager for the last few matches of the season. They scored 40 goals over the whole season of 24 matches.

How many goals per match did they score on average with the new manager?

[4 marks]

Answer

- **2** Jess measures the height of each student in her year.
- 2 (a) Which two words describe the data she collects?Circle your answers.

[2 marks]

Primary	Secondary	Discrete	Continuous

2 (b) Jess records the data in this table and draws a frequency polygon.

Height, <i>h</i> (cm)	Frequency
150 ≤ <i>h</i> < 160	6
160 ≤ <i>h</i> < 170	30
170 ≤ <i>h</i> < 180	44
180 ≤ <i>h</i> < 190	20



Write down two mistakes that she has made.

[2 marks]

stances travelled to make 500 deliveries.

3 (a)	Complete the cumulative frequency column	





Distance, <i>d</i> (miles)	Frequency	Cumulative frequency
0 < <i>d</i> ≤ 10	0	0
10 < <i>d</i> ≤ 40	60	60
40 < <i>d</i> ≤ 60	240	
60 < <i>d</i> ≤ 80	125	
80 < <i>d</i> ≤ 100	75	

3	; T	he	tab	le s	shows	inf	forma	tion	abou	t the	di

[1 mark]

3 (c) Deliveries under *x* miles are free.50 of the deliveries were free.Use your graph to estimate *x*.

[1 mark]

Answer

4 The pie chart shows information about the number of students attending four colleges.



1200 students attend College D.

Altogether, how many students attend all the colleges?

[3 marks]

Answer _____

Mass, <i>m</i> (g)	Frequency
60 < <i>m</i> ≤ 90	120
90 < <i>m</i> ≤ 110	
110 < <i>m</i> ≤ 120	
120 < <i>m</i> ≤ 140	180
140 < <i>m</i> ≤ 180	80
	Total = 600





Complete the table and the histogram.

[4 marks]