Most Popular Pet

NAME: ....

CLASS: ....

DATE: ....

Basic

1) The picture graph below shows the nationality of the participants attending a travel exhibition.

Chinese	✱ ✱ ✱
European	✱ ✱ ✱ ✱ ✱
Japanese	✱
Australian	✱ ✱
American	✱ ✱ ✱ ✱ ✱ ✱ ✱
Each ✱ stands for 100 adults	

Use the information above to complete the bar graph below.

Most Popular Pet

NAME: ....

CLASS: ....

DATE: ....

Core

1) Michael asked the people in his office how many times they had eaten out in the last month and obtained the following data.

6	0	6	4	8	4	3	4	4	4
1	5	7	5	1	3	4	0	3	2
3	3	5	8	2	8	5	0	1	0

a) Construct a frequency table from the above data and calculate the average number of times that people have eaten out in the last month.

b) Illustrate the data on a bar chart.

Core

2) The following table shows the favourite types of pizza chosen by 180 people. Complete the table and draw a pie chart to represent this information.

Type of Pizza	Number	Fraction	Angle
Hawaiian	20		
Four Seasons	90		
Pepperoni	10		
Vegetable	60		

Most Popular Pet

NAME: ....

CLASS: ....

DATE: ....
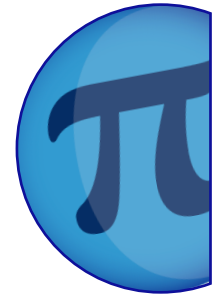
Advanced

1) The graph shows the number of people who queued outside a department store for the end of year sale.
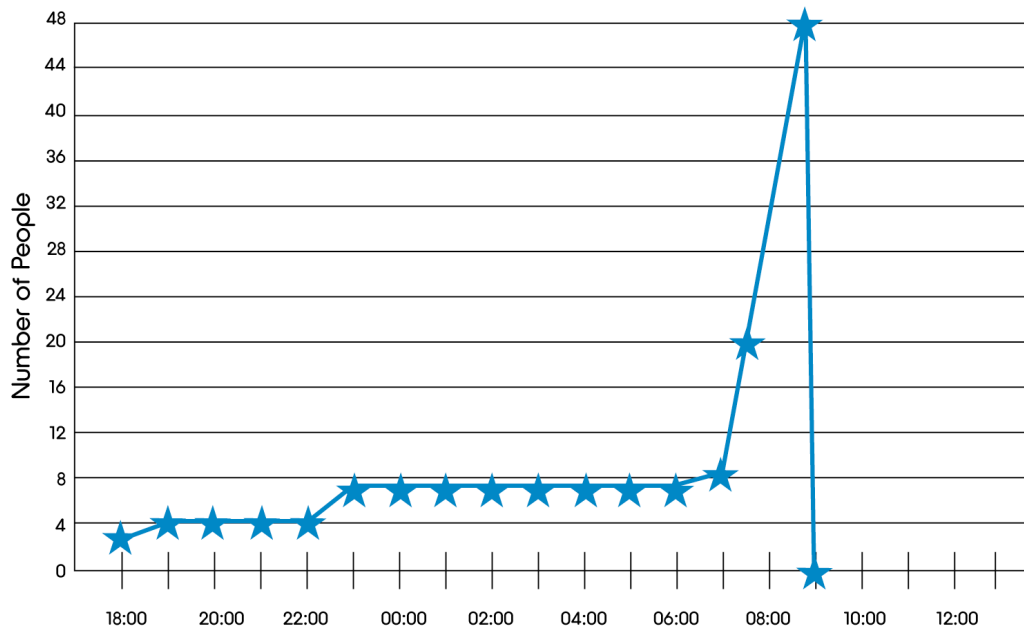
a) How many people were in the queue by midnight?

b) By what time had the queue grown to 20?

c) Explain what you think is happening in the long flat section of the graph.

d) Estimate the number of people in the queue at 08:30.

e) What happened at 09:00?

2) Brian lists the results of his prelim exam and his final exam, as follows:

Subject	English	Maths	Science	Spanish	History	PE	RE
Prelim (%)	74	78	82	56	45	48	60
Exam (%)	70	75	80	58	46	43	54

a) Draw a scatter diagram of these results.

b) Draw the line of best fit for the points of the scatter diagram.

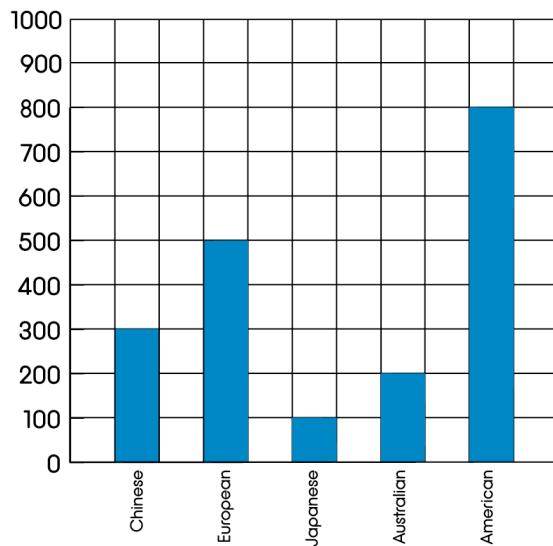c) Use your line of best fit to predict the examination mark for a prelim mark of 80%.
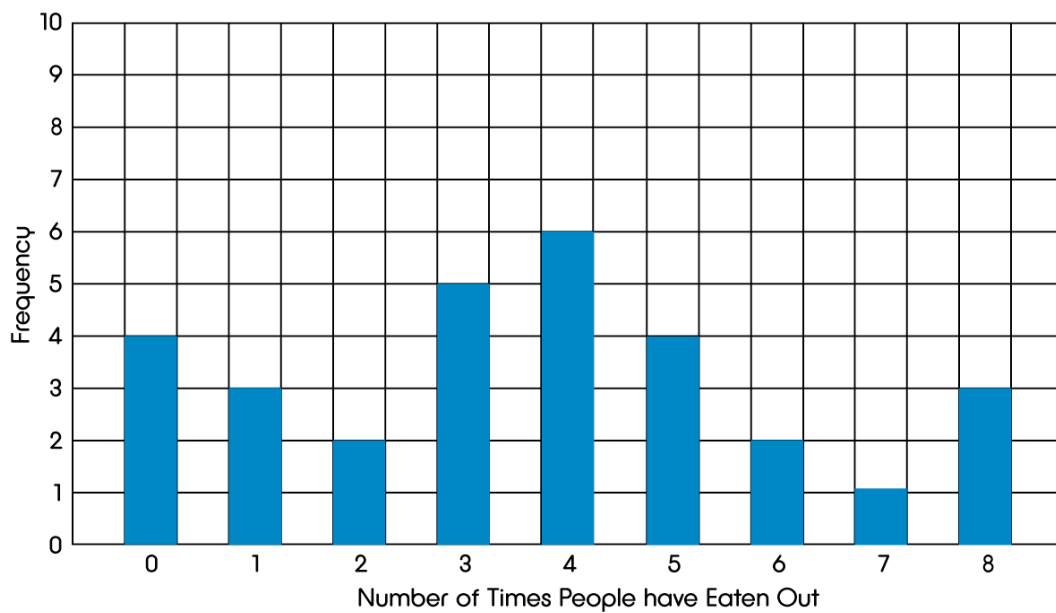
ANSWERS

Basic

1)

Nationality of Participants at Travel Exhibition

Core

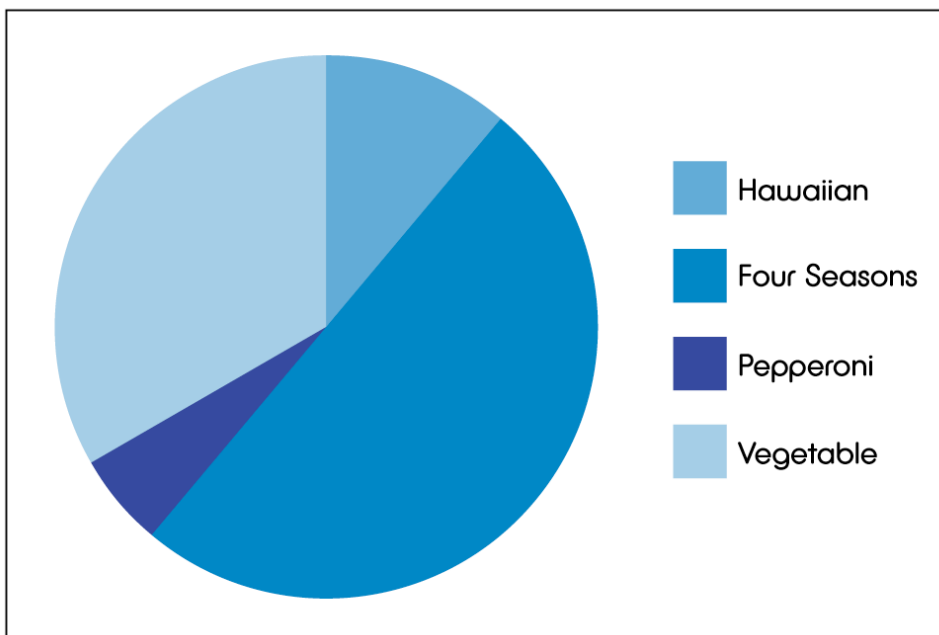**1 a) Average number of times that people have eaten out = 3.63**

b)

2)

Type of Pizza	Number	Fraction	Angle
Hawaiian	20	$\frac{20}{180}$	$\frac{20}{180}$ x 360° = 40°
Four Seasons	90	$\frac{90}{180}$	$\frac{90}{180}$ x 360° = 180°
Pepperoni	10	$\frac{10}{180}$	$\frac{10}{180}$ x 360° = 20°
Vegetable	60	$\frac{60}{180}$	$\frac{60}{180}$ x 360° = 120°

ANSWERS

Advanced

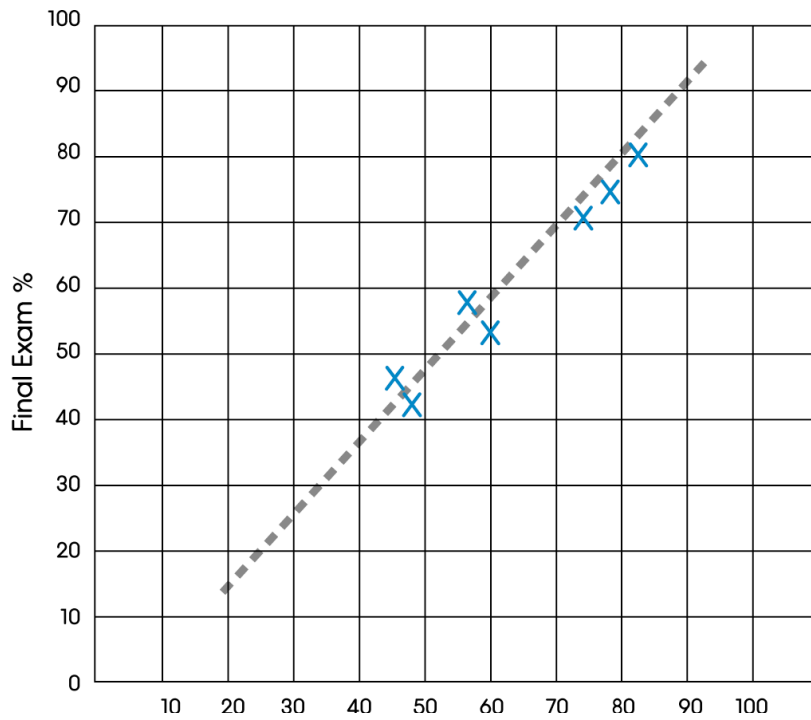**1) a) 7**   **b) 07:30**   **c) No one joined the queue**   **d) 42**   **e) The store opened**

2) a) b)

Prelim and Final Exam Results

c) 80%