Box-and-whisker plots

1. The box-and-whisker plot shows the ages of 120 people in a movie theatre.

   ![Box-and-whisker plot]

   a How many people in the theatre are less than 9 years old?

   b How many people in the theatre are less than 30 years old?

   c In which age group are there more people; 9 to 17 years or 17 to 30 years?
     Give a reason for your answer.

2. The box-and-whisker plot records the cost of 2-monthly electricity bills correct to the nearest dollar. A total of 72 bills have a value between $145 and $325.

   ![Box-and-whisker plot]

   a How many bills have a value between $250 and $325?

   b How many bills are for more than $145?

   c A bill is selected at random, what is the probability it will be for less than $145?

3. The two box-and-whiskers plots show the results of two groups of 48 people on a general knowledge quiz.

   ![Box-and-whisker plot]

   Produce a five number summary for the one, combined group of 96 people.

Answers

1a 30  b 90  c Same number in both. Each section contains 25%

2a 36  b 108  c 4

3 Lowest score = 9, lower quartile = 12, median = 14, upper quartile = 15, highest score = 20

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