

Use a line of best fit on a scatter graph

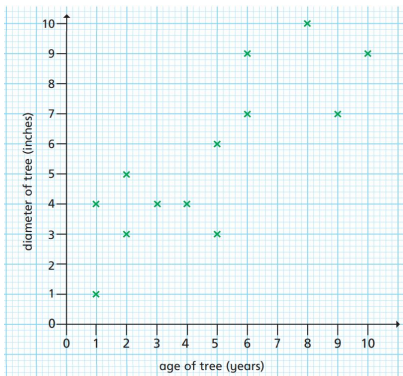
Maths

Mr Clasper



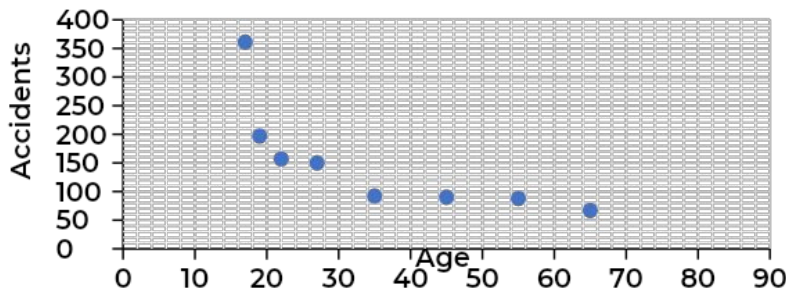
Use a line of best fit on a scatter graph

1. Here is the scatter graph for the age of a tree and the diameter of its trunk.



- Draw a line of best fit on the scatter graph.
- Estimate the age of a tree that is 8 inches in diameter.

2. The scatter graph shows the number of accidents per million miles for drivers of different ages.



- Draw a line of best fit.
- Why can you not use the graph to estimate the number of accidents for an 80 year old?

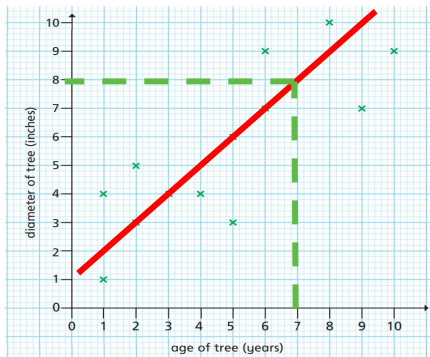


Answers



Use a line of best fit on a scatter graph

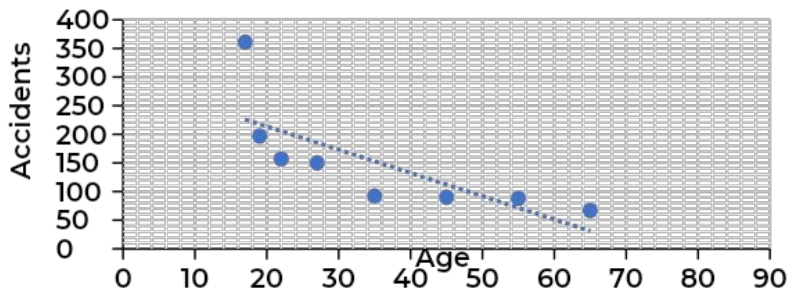
1. Here is the scatter graph for the age of a tree and the diameter of its trunk.



a) Draw a line of best fit on the scatter graph.

b) Estimate the age of a tree that is 8 inches in diameter. **7 years**

2. The scatter graph shows the number of accidents per million miles for drivers of different ages.



a) Draw a line of best fit.

b) Why can you not use the graph to estimate the number of accidents for an 80 year old? **Outside of the data collected.**

