

Learn About

Interpreting Graphs and Charts: Charts, Stem-and-Leaf Plots and Maps

Charts and stem-and-leaf plots use numbers to display information. The chart shows that six dogs at the pet shelter weigh between 10 and 19 kilograms. The stem-and-leaf plot shows that these weights are 12, 14, 14, 17, 18 and 18 kilograms.

Charts

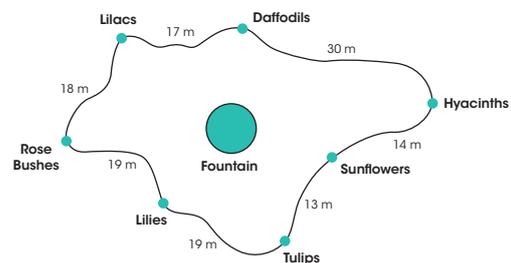
Dogs at the Pet Shelter	
Weight Range	Number of Dogs
10 kg to 19 kg	6
20 kg to 29 kg	7
30 kg to 39 kg	9
40 kg to 49 kg	3

Stem-and-Leaf Plot

Weights of Dogs (kg)	
Stems	Leaves
1	2, 4, 4, 7, 8, 8
2	1, 3, 6, 8, 8, 8, 9
3	0, 2, 3, 4, 4, 6, 6, 7, 9
4	3, 5, 8

tens digit ones digit

A map is a representation of a location. The distances between points are labelled on the map to the right. The map shows that the distance between the daffodils and the hyacinths is 30 metres.



Look at the stem-and-leaf plot above. How many dogs weigh between 25 kilograms and 35 kilograms?

There are 5 leaves greater than 5 next to the 2-stem.

There are 5 leaves less than 5 next to the 3-stem.

$$5 + 5 = 10$$

There are **10 dogs** that weigh between 25 kilograms and 35 kilograms.



Charts and stem-and-leaf plots use numbers to display information. A **map** is a representation of a location.

*Look at the answer choices for each question.
Read why each answer choice is correct or
not correct.*

1. On the day that 6 centimetres of snow fell, how many snow ploughs were on the road?

Ⓐ 6 snow ploughs

This is not correct. The point that aligns with 6 on the horizontal axis aligns with 10 on the vertical axis. There were 10 snow ploughs on the road when there was 6 centimetres of snow, not 6.

Ⓑ 8 snow ploughs

This is not correct. The point that aligns with 6 on the horizontal axis aligns with 10 on the vertical axis. There were 10 snow ploughs on the road when there was 6 centimetres of snow, not 8.

● 10 snow ploughs

This is correct. The point that aligns with 6 on the horizontal axis aligns with 10 on the vertical axis. There were 10 snow ploughs on the road when there was 6 centimetres of snow.

Ⓓ 12 snow ploughs

This is not correct. The point that aligns with 6 on the horizontal axis aligns with 10 on the vertical axis. There were 10 snow ploughs on the road when there was 6 centimetres of snow.

2. What was the average amount of money that Craig's Market made on snow boot sales each day during the five days?

Ⓐ \$357.80

This is not correct. Craig's Market made a total of \$1801.75 on snow boot sales during the five days.
 $\$1801.75 \div 5 = \360.35 ,
not \$357.80.

● \$360.35

This is correct. Craig's Market made a total of \$1801.75 on snow boot sales during the five days.
 $\$1801.75 \div 5 = \360.35

Ⓒ \$365.30

This is not correct. Craig's Market made a total of \$1801.75 on snow boot sales during the five days.
 $\$1801.75 \div 5 = \360.35 ,
not \$365.30.

Ⓓ \$452.19

This is not correct. Craig's Market made a total of \$1801.75 on snow boot sales during the five days.
 $\$1801.75 \div 5 = \360.35 ,
not \$452.19.

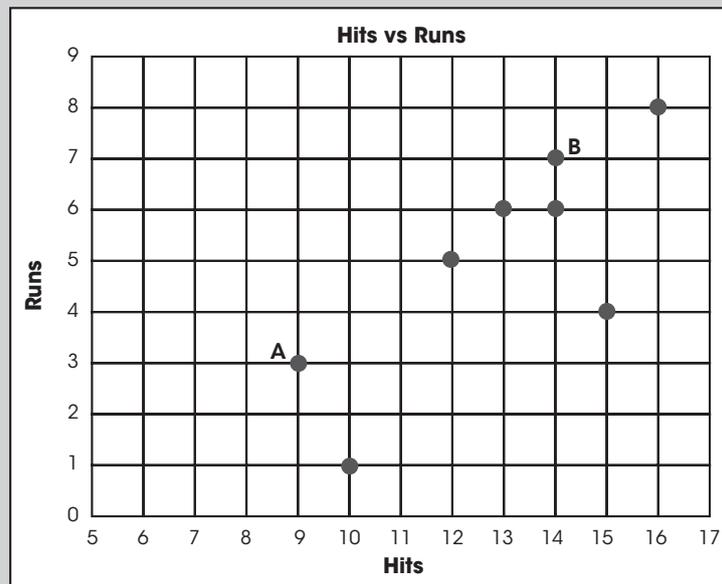
Lesson

11

Read the passage.
Then do Numbers 1–5.

Teamwork

Chris is studying his baseball team's scores and the number of hits they make each game. He is trying to determine the relationship, if any, between the number of hits his team is able to make and the number of runs they earn in a game. He recorded the information after each game and graphed the data for the games they have played so far.



1. What are the coordinates of points *A* and *B*?

- Ⓐ $A(8, 3)$ and $B(14, 7)$
- Ⓑ $A(9, 3)$ and $B(14, 7)$
- Ⓒ $A(3, 10)$ and $B(7, 14)$
- Ⓓ $A(3, 9)$ and $B(7, 14)$

2. In how many games did the team have 12 or more hits?

- Ⓐ 3 games
- Ⓑ 4 games
- Ⓒ 5 games
- Ⓓ 6 games

Self-Assessment 2

Lessons 6–10

Answer these questions after you have completed Lessons 6–10. Before you begin, re-read what you wrote in Self-Assessment 1.

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Name _____ Date _____

1. Rate your work in Lessons 6–10. Circle your answer.

successful

somewhat successful

needs improvement

2. Did any of the questions give you trouble? _____

If so, what kind of trouble did you have?

Is this the same kind of trouble you had in Lessons 1–5? _____

3. Did you find the questions easier or more difficult than those in Lessons 1–5?

Why do you think this is so?

4. Did you meet the goal you set for yourself for Lessons 6–10? _____

Why or why not?

5. What is your goal for Lessons 11–15?

Cut along the dotted line.