LiveHint Demo

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About LiveHint

What is LiveHint?

LiveHint is Carnegie Learning's new live textbook assistant. LiveHint allows students to obtain real-time hints on textbook assignments through a Conversational ChatBot (TutorBot) from any device. With LiveHint, students and parents never have to navigate through textbook assignments on their own.

Who should use LiveHint?

Students completing Practice problems in the Assignment of a Course 1, Course 2, Course 3, or Algebra I Carnegie Learning Textbook. LiveHint can be used alone or together with a parent, teacher, or fellow student.

Getting Started

How do I register / sign in for the first time?

There is no registration or sign in required! To get started using LiveHint, just visit LiveHint.com on any device and press Let's Go!

***IMPT NOTE**: Bookmark this URL or Add to Home Screen so you always know where to return.*

How should I use LiveHint?

To get started, all you'll need is the Assignment that you are working on in your Carnegie Learning textbook. (Please note that hints are only available for Assignment questions right now).

Scroll down to check out the samples from Course 3 and Algebra I below.

Assignment

Write

Write three equations, one that has one solution, one that has no solutions, and one that has infinite solutions.

Remember

An equation can have one solution, no solutions, or infinite solutions.

Practice

1. Don has four different chicken coops on his farm. He gathers eggs from each coop every day to sell at the local farmer's market each week. During one week in the summer, the production levels from the coops were compared.
   - The number of eggs from coop B can be found by subtracting 10 from coop A's production, and then multiplying this result by two-fifths.
   - The number of eggs from coop C can be found by adding 3 to coop A's production, multiplying this amount by 3, subtracting 4 from this total, and then dividing the whole result by 4.
   - The number of eggs from coop D can be found by adding 7 to coop A's production, doubling this amount and then dividing the result by 3.

   a. Define a variable for the number of eggs produced by coop A. Then write expressions for the number of eggs produced by the other coops.

   b. If coop A produced 125 eggs, how many did each of the other coops produce?

   c. If the sum of the number of eggs from coop B and coop C was 24 more than the number of eggs from coop D, how many eggs did each coop produce?

2. Three siblings collect rare coins. To determine the number of rare coins that Samantha has, take the number of rare coins Kevin has, add 4, and then divide that sum by 2. To determine the number of rare coins Ben has, double the number of rare coins Kevin has, subtract 4, and then multiply that difference by 2. How many rare coins does each sibling have if they have a total of 49 rare coins?

3. Three teammates had different point totals at the girls' basketball game. To determine the number of points Effie had, multiply Toni's points by 3, subtract 8, and then multiply the difference by 2. To determine the number of points Linda had, add 9 to Toni's points and divide the sum by 3. How many points did each girl have if Effie scored 9 more than Toni and Linda combined?

4. Four members of the track team ran various numbers of miles last week. To determine the number of miles Manuel ran, multiply the number of miles Ewan ran by 3, subtract 15, multiply the difference by 2, and divide this quantity by 5. To determine the number of miles Violet ran, subtract 14 from the number of miles Ewan ran, and then multiply the difference by 3. To determine the number of miles Ling ran, add 30 to the number of miles Ewan ran, and then divide the sum by 5. How many miles did each team member run last week if the total number of miles run by Ewan and Manuel is equal to the total number of miles run by Violet and Ling?

Assignment

Write

Match each definition to its corresponding term.

1. interquartile range (IQR)
2. standard deviation
3. lower fence
4. upper fence
5. statistic
6. measure of central tendency
7. outlier

a. a value calculated using the formula Q1 − (IQR·1.5)
b. numeric characteristics of a data set
c. a value that is much greater or lesser than other values in a data set
d. a value calculated using the formula Q3 + (IQR·1.5)
e. a measure of spread from the mean
f. a value used to describe the overall clustering of data in a set
g. a measure of spread from the median

Remember

The median is the better measure of central tendency and the IQR is the better measure of spread to use to describe a data set that is skewed. The mean is the better measure of central tendency and the standard deviation is the better measure of spread to use to describe a data set that is symmetric. Outliers in a data set are calculated using the formula Q1 − (IQR·1.5) to determine a lower fence and Q3 + (IQR· 1.5) to determine an upper fence. Any value outside these limits is an outlier.

Practice

1. Consider each data set. Calculate the median, mean, IQR, and standard deviation of each set. Then, determine which measure of central tendency and which measure of spread is the most appropriate to use to describe the data set. Explain your reasoning.
   a. 1, 2, 2, 4, 8, 8, 8, 9, 9, 9, 10, 10, 10
   b. 5, 5, 6, 6, 6, 7, 7, 7, 8, 8, 8, 9, 9
   c. 0, 1, 2, 10, 12, 12, 16, 16, 16, 16, 18, 18, 20
   d. 2, 2, 2, 3, 3, 4, 4, 8, 9, 9, 10, 10, 10
2. The five number summaries for the average monthly precipitation in millimeters during the summer for the Western and Midwestern states are provided.

West	Midwest
Min = 7	Min = 68
Q1 = 22	Q1 = 81.5
Med = 33	Med = 99.5
Q3 = 49	Q3 = 102.5
Max = 107	Max = 111

   a. Construct box-and-whisker plots of each area's monthly precipitation using the same number line for each.
   b. Describe the distribution of both box-and-whisker plots and explain what they mean in terms of the problem situation.
   c. Determine if there are outliers in either data set. Show your work and explain how you determined your answer.
   d. Chen is considering a long camping trip this summer and hopes to avoid the rain. Would you recommend that he camp in the West or the Midwest? Explain your reasoning.