Variations Mean Word Problems

To solve problems involving the mean, you need to know the TOTAL (sum) and the NUMBER of pieces of date

Problem Variations in Finding the Mean

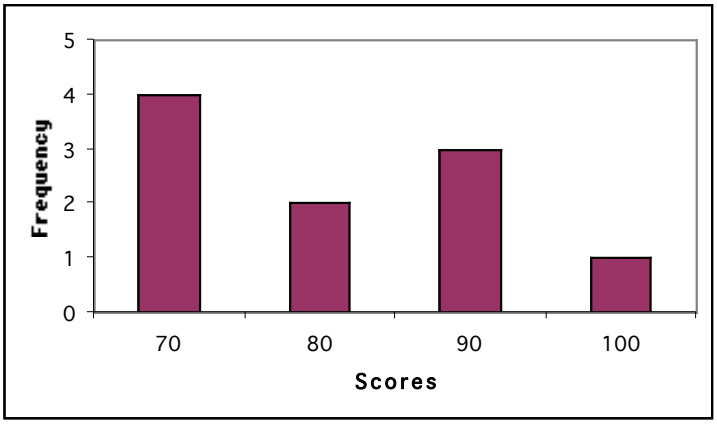
1. Find the mean of the following data: 78, 74, 81, 83, and 82.

2. In Ted's class of thirty students, the mean on the math exam was 80. Andrew's class of twenty students had a mean of 90. What was the mean of the two classes combined?

3. Ted's bowling scores last week were 85, 89, and 101. What score would he have to make on his next game to have a mean of 105?

4. One of your students was absent on the day of the test. The class average for 24 students was 75%. After the other student took the test, the mean increased to 76%, what did the last student make on the test?

5. Use the following graph to find the mean.



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To find the *mean* of a set of numbers, add all of the data together, then divide that sum by the amount of numbers in the set.

Anwer the following questions.

1. One class of 30 students had a mean score of 80 and another class of 20 students had a mean score of 90. What was the mean score of the two classes combined?

2. Sam scored 78, 84, and 93 on his first three tests. What score must he earn on the fourth test to have a mean of 90?

3. The mean score of 24 students was 76. After an absent student completed the test, the mean increased to 77. What score did the absent student earn?

4. The numbers 320, 410, 500, and x have a mean of 450. Find x.

5. A basketball player averaged 22 points over 12 games. How many points must she score in the next game to raise her mean to 23 points?

6. Five numbers have a mean of 360. Four numbers are 280, 340, 410, and 390. Find the fifth number.

7. The mean of eight numbers is 450. Seven of the numbers total 3010. Find the eighth number.

8. A store sold an average of 125 items per day for 6 days. If it sold 140 items on the seventh day, what was the new mean?

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To find the *mean* of a set of numbers, add all of the data together, then divide that sum by the amount of numbers in the set.

Anwer the following questions.

1. A class of 30 students had a mean score of 84 and another class of 18 students had a mean score of 92. Find the combined mean.

2. Jill scored 88, 91, and 95 on three quizzes. What score is needed on the fourth quiz for a mean of 94?

3. The average score of 20 students was 81. After one more student took the test, the mean increased to 82. What score did the last student earn?

4. The numbers 420, 510, 630, and x have a mean of 540. Find x.

5. A bowler averaged 175 points over 10 games. What score is needed in game 11 to raise the mean to 180?

6. Six numbers have a mean of 520. Five numbers are 480, 500, 530, 550, and 560. Find the sixth number.

7. The mean of nine numbers is 610. Eight numbers total 4920. Find the ninth number.

8. Scores of 200, 300, 300, 400, and 500 occur with frequencies 2, 3, 4, 5, and 1 respectively. Find the mean.