

Name \_\_\_\_\_ Class \_\_\_\_\_

**These Puzzles are Mean!**

*Solve each puzzle.*

1. There are 6 whole numbers in a set of numbers. The least number is 8, and the greatest number is 14. The mean, the median, and the mode are 11. What are the numbers?  
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2. There are 7 whole numbers in a set of numbers. The least number is 10, and the greatest number is 20. The median is 16 and the mode is 12. The mean is 15. What are the numbers?  
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3. There are 8 whole numbers in a set of numbers. The greatest number is 17, and the range is 9. The median and the mean are 12, but 12 is not in the data set. The modes are 9 and 14. What are the numbers?  
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4. The mean of a data set of 6 numbers is 8. The mean of a different set of 6 numbers is 20. What is the mean of the combined data sets? \_\_\_\_\_
5. Find the mean of 7 numbers if the mean of the first 4 numbers is 5 and the mean of the last 3 numbers is 12. What is the mean of the combined data sets? \_\_\_\_\_
6. The mean of a data set of 3 numbers is 12. The mean of a data set of 9 numbers is 40. What is the mean of the combined data sets? \_\_\_\_\_
7. Sasha needs an average of 30 points to move to the next level in her competition. Her scores in the first three events are 28, 35, and 30. What is the lowest score she can score in her last event to move to the next level of competition? \_\_\_\_\_
8. Lars has a score of 89 for each of his first 3 science quizzes. The last score on his fourth quiz is 92. What score does he need on his fifth quiz to have an average of 90? \_\_\_\_\_
9. Jake has a 95 average in math after 4 quizzes. Then he got 0 on the next quiz after being absent. There are 2 more quizzes. What average grade does he need on these last 2 quizzes to keep his average at least 85? \_\_\_\_\_