

Student Activity: To find the mean of a set of numbers.

Use in connection with the interactive file "Mean" on the Student's CD.

1. Find the mean of the following set of numbers 50, 40, 50, 20, 30 and 80.

2. By changing the sliders in the interactive file, find the mean of the following set of numbers 50, 40, 50, 20, 30 and 80. Check that this result agrees with answer in No 1.

3. Find the mean of the following set of numbers 10, 10, 10, 10, 10 and 100.

4. By changing the sliders in the interactive file, find the mean of the following set of numbers 10, 10, 10, 10, 10 and 100. Check that this result agrees with answer in No 3.

5. Find the mean of the following set of numbers -8, -66, -30, 8, 30 and 66.

6. By changing the sliders in the interactive file, find the mean of the following set of numbers -8, -66, -30, 8, 30 and 66. Check that this result agrees with answer in No 5.

7. Using the interactive file, find 3 sets of numbers whose means are zero?

8. Why does the interactive file always divide by 6?

9. If the mean of a set of 6 numbers is 50 and we know 5 of the numbers are 35, 40, 50, 64 and 15, find the 6th number.

Check your answer using the interactive file

10. Using the interactive file, determine what is the effect on the mean of increasing one or more data items?

11. Using the interactive file, determine what is the effect on the mean of decreasing one or more data items?

12. Click the Reset button on the interactive file and record the mean. By adjusting the sliders increase each of the numbers by 5. What do you notice about the new mean in comparison to the original mean?

13. Click the Reset button on the interactive file and record the mean. By adjusting the sliders multiply each of the numbers by 2. What do you notice about the new mean in comparison to the original mean?

14. Click the Reset button on the interactive file and record the mean. By adjusting the sliders divide each of the numbers by 2. What do you notice about the new mean in comparison to the original mean?
