

## Mean Word Problems

*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.*

Example: Mike received the following scores on his Math tests: 100, 90, 80, 100, 90. Find his mean test score.

$$100 + 90 + 80 + 100 + 90 = 460 \text{ total points.}$$

460/5 tests gives you a **mean of 92 points**

- 1) Steve received the following scores on his Math tests: 100, 80, 70, 100, 60, 70. Find his mean score.
- 2) Melissa received the following amounts as graduation gifts: \$20, \$25, \$25, \$50, \$10, \$20, \$20, \$30. Find the mean amount of her gifts.
- 3) Derrick scored the following amount of points during his basketball season: 12, 8, 10, 8, 2, 12, 14, 10, 8, 6. Find his mean scoring average.
- 4) Jennifer recorded the following temperatures while researching her science project: 90, 60, 55, 60, 55, 75, 75, 70, 75, 80, 75. Find the mean temperature that she recorded.
- 5) Carlos watched 3 hours of TV on Monday, 2 on Tuesday, 1 on Wednesday, 0 on Thursday, 3 on Friday, 2 on Saturday, and 3 on Sunday. What is the mean number of hours of TV that he watched that week?
- 6) DeAndre earned the following amount while working his summer job each week: \$100, \$80, \$90, \$60, \$100, \$20, \$80, \$90, \$100, \$80, \$80. What is the mean amount that he earned each week?
- 7) Don read the following number of pages of his favorite book each night before bed: 10, 20, 10, 20, 40, 10, 10, 20, 40. What is the mean number of pages that he read every night?
- 8) Michelle did the following number of sit-ups every day to get ready for soccer season: 25, 25, 30, 40, 50, 50, 50, 50. What is the mean number of sit-ups that she did each day?
- 9) Jason spent the following number of minutes on his homework last week: 10, 20, 30, 20, 20, 20, 20. What is the average amount of time that he spent on his homework.

# Mean Word Problems

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Example: Ethan received the following scores on his Math tests: Test #1- 100, Test #2-90, Test #3-80, Test #4-100, Test #5- 90. Find his mean test score.

$100 + 90 + 80 + 100 + 90 = 460$  total points     $460/5$  tests gives you a mean of 92 points

**Answer the following questions.**

- 1) James counted the votes in the Student Council Election. Twenty 3rd graders voted, twenty two 4th graders voted, twenty two 5th graders voted, and thirty 6th graders voted. What is the mean number of votes that were cast in each grade?
- 2) During the basketball season, the Chargers won by 12 points in their first game, 4 points in the second game, 2 points in the third game, 2 points in the fourth game, and 12 points in the last game. Find the mean number of points that the Chargers won by each game.
- 3) Dylan measured the shoe size of his classmates. The first three students had a shoe size of 8 inches, the next six students had a shoe size of 6, and the last student had a shoe size of 10.5. Find the mean shoe size of the students that Dylan measured.
- 4) Jennifer recorded the following high temperatures while researching her science project: 90 degrees on Oct. 4, 75 degrees from Oct. 5-7, and 80 degrees for the final two days of the project. What was the mean temperature that she recorded?
- 5) Emma had \$200 in her checking account. She spent half of that on Monday. She spent \$10 each day from Tuesday-Saturday. Then she spent \$18 on Sunday. What is the mean amount that she spent each day?
- 6) John ran listened to four songs in row. The first song was 4 minutes long, and the next two songs were 3 minutes long. The last song was 6 minutes long, but John turned it off halfway through the song. What was the mean length of time that John spent listening to each song?
- 7) Samuel was reading a 200 page book. The first night, he read half of the book. The second night, he read half as many pages as he did the night before. On the third night, he took a break and didn't read any pages. On the fourth night, he finished the rest of the book. What was the mean number of pages he read each night?

## Finding the Mean (raw data)

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

**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.**

**Example: Find the mean of (6, 8, 10, 11, 15)**

*Add them together  $6 + 8 + 10 + 11 + 15 = 50$*

*Divide that sum by the amount of numbers in the set*

**50 divided by 5 gives you a mean of 10**

**Find the mean of the following data.**

$$6 + 10 + 15$$

$$3 + 6 + 2$$

$$13 + 11 + 14$$

$$7 + 4 + 8$$

$$16 + 12 + 5$$

$$12 + 2 + 16$$

$$3 + 16 + 5$$

$$0 + 6 + 14$$

$$5 + 7 + 11$$

$$2 + 19 + 13$$

$$2 + 18 + 6$$

$$0 + 11 + 12$$

$$17 + 6 + 13$$

$$12 + 13 + 12$$

$$2 + 19 + 1$$

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**Find the mean of the following data.**

$14 + 5 + 12$

$4 + 13 + 6$

$4 + 8 + 10$

$12 + 18 + 8$

$5 + 19 + 10$

$0 + 0 + 17$

$9 + 12 + 16$

$5 + 1 + 11$

$4 + 11 + 1$

$7 + 1 + 17$

$12 + 5 + 6$

$3 + 1 + 7$

$14 + 13 + 1$

$17 + 9 + 2$

$12 + 14 + 1$

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**Find the mean of the following data.**

$17 + 3 + 13$

$13 + 4 + 18$

$8 + 4 + 9$

$12 + 4 + 9$

$17 + 7 + 2$

$15 + 16 + 13$

$12 + 6 + 11$

$5 + 6 + 16$

$7 + 11 + 14$

$16 + 7 + 17$

$16 + 6 + 17$

$3 + 13 + 19$

$15 + 0 + 2$

$10 + 4 + 3$

$3 + 18 + 14$

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**Find the mean of the following data.**

$496 + 515 + 84$

$366 + 79 + 355$

$36 + 761 + 653$

$853 + 246 + 437$

$799 + 77 + 257$

$871 + 377 + 823$

$550 + 430 + 566$

$741 + 704 + 463$

$780 + 874 + 106$

$413 + 588 + 218$

$609 + 506 + 417$

$889 + 84 + 850$

$749 + 760 + 396$

$606 + 748 + 460$

$194 + 346 + 118$

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**50 divided by 5 gives you a mean of 10**

**Find the mean of the following data.**

$$2570 + 2657 + 1093$$

$$8391 + 2280 + 8299$$

$$3857 + 6193 + 4286$$

$$6749 + 5146 + 1365$$

$$8432 + 1293 + 7994$$

$$7166 + 3432 + 9396$$

$$1628 + 1702 + 3632$$

$$5780 + 4807 + 1255$$

$$9666 + 122 + 6679$$

$$3857 + 3025 + 9465$$

$$1867 + 8186 + 4193$$

$$2609 + 973 + 7367$$

$$5020 + 330 + 7610$$

$$2008 + 674 + 3670$$

$$8024 + 9551 + 2470$$