

Mean Mission

Find the number that represents a data set.

GRADE 5 • 5.PS.2.b

5.PS.2.b "Describe and determine the mean of a set of data values representing data from a given context as a measure of center."

NAME _____

DATE _____

FINDING THE MEAN

The mean is a measure of center that tells the equal-share value of a set of data. Add all the data values, then divide the total by the number of values.

WORKED EXAMPLE

Find the mean of 13, 17, 21, and 25.

1. Add the values: $13 + 17 + 21 + 25 = 76$.
2. Count the values: 4.
3. Divide the total by the number of values: $76 / 4 = 19$.

Answer: The mean is 19.

PRACTICE 6 problems

- 1** Find the mean of 6, 8, and 10.

ANSWER _____

- 2** Find the mean of 10, 14, and 18.

ANSWER _____

- 3** Find the mean of 2, 7, 9, and 12.

ANSWER _____

- 4** The temperatures at noon for four days were 26, 28, 30, and 32 degrees. Find the mean temperature.

ANSWER _____

- 5** A student earned 9, 9, 12, 15, and 15 stickers during five activities. Find the mean number of stickers.

ANSWER _____

- 6** The mean of 12, 16, ___, and 20 is 16. What number belongs in the blank?

ANSWER _____

APPLY IT Show your work

- 1** Lena read 18 pages on Monday, 24 pages on Tuesday, 30 pages on Wednesday, and 36 pages on Thursday. What was her mean number of pages read per day?

WORK SPACE

ANSWER _____

- 2** In five rounds of a game, Amir earned 7, 11, 15, 19, and 23 coins. What was his mean number of coins earned per round?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A music club recorded the number of songs played during five meetings: 14, 18, 22, 26, and 30. At the sixth meeting, the club played enough songs to make the mean for all six meetings 24. How many songs did the club play at the sixth meeting? Explain your reasoning.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find the mean of 6, 8, and 10.	8
2	Find the mean of 10, 14, and 18.	14
3	Find the mean of 2, 7, 9, and 12.	7.5
4	The temperatures at noon for four days were 26, 28, 30, and 32 degrees. Find the mean temperature.	29 degrees
5	A student earned 9, 9, 12, 15, and 15 stickers during five activities. Find the mean number of stickers.	12 stickers
6	The mean of 12, 16, ___, and 20 is 16. What number belongs in the blank?	16

PART 2 • APPLY IT

1. **27 pages per day** Add the pages: $18 + 24 + 30 + 36 = 108$. Divide 108 by 4 days to get 27 pages per day.
2. **15 coins per round** The total number of coins is 75. Divide 75 by 5 rounds to get 15 coins per round.

CHALLENGE

34 songs. A mean of 24 for 6 meetings means the total must be $6 \times 24 = 144$. The first five meetings total 110, so $144 - 110 = 34$.

Accept 7.5 or $7 \frac{1}{2}$ for problem 3. For the challenge, accept any correct explanation that shows a total of 144 and subtracts the first-five-meeting total of 110.