

Share It Fair

Find the equal share hidden in a set of numbers.

GRADE 5 • 5.PS.2.a

5.PS.2.a "Describe mean as fair share."

NAME _____

DATE _____

MEAN IS A FAIR SHARE

The mean is the amount each value would have if the total were shared equally. Add all the values, then divide by the number of values.

WORKED EXAMPLE

Find the mean of 14, 18, 22, and 26.

1. Add: $14 + 18 + 22 + 26 = 80$.
2. Count the values: 4.
3. Share 80 equally among 4 values: $80 \div 4 = 20$.

Answer: The mean is 20.

PRACTICE 6 problems

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

ANSWER _____

- 2** Find the mean of 5, 7, 11, 13, and 19.

ANSWER _____

- 3** A team scored 42 points across 6 games. What was the mean number of points per game?

ANSWER _____

- 4** Find the mean of 16, 19, 23, 27, and 30.

ANSWER _____

- 5** A reader completed 63 pages over 7 days. If the pages were shared equally across the days, how many pages would be read each day?

ANSWER _____

- 6** Find the mean of 25, 29, 31, 35, and 40.

ANSWER _____

APPLY IT Show your work

- 1** A game club earned 72 prize tickets across 8 game stations. If each station had earned an equal number of tickets, how many tickets would each station have earned?

WORK SPACE

ANSWER _____

- 2** Over five days, Lila spent 28, 32, 36, 40, and 44 minutes practicing a song. If her practice time were shared equally across the days, how many minutes would she practice each day?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A player wants a mean score of 32 points after five rounds. The known scores are 27, 29, 34, and 38 points, plus one more score. What must the last score be? Explain how you know.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Find the mean of 6, 8, and 10.	8
2	Find the mean of 5, 7, 11, 13, and 19.	11
3	A team scored 42 points across 6 games. What was the mean number of points per game?	7 points
4	Find the mean of 16, 19, 23, 27, and 30.	23
5	A reader completed 63 pages over 7 days. If the pages were shared equally across the days, how many pages would be read each day?	9 pages
6	Find the mean of 25, 29, 31, 35, and 40.	32

PART 2 • APPLY IT

1. **9 tickets** Divide the total tickets by the number of stations: $72 \div 8 = 9$. The mean, or fair share, is 9 tickets per station.
2. **36 minutes** Add the practice times to get 180 minutes, then divide by 5 days: $180 \div 5 = 36$. The mean practice time is 36 minutes per day.

CHALLENGE

32 points. A mean of 32 for five rounds needs a total of 160 points. The known scores total 128 points, so the last score must be 32 points.

Accept answers with correct units when units are requested. For the challenge, accept any explanation that shows a total of 160 points and subtracts the known total of 128 points.