LESSON MAKER PRO

Fair Share Finds

Find the value each group would have after an equal share.

GRADE 6 · 6.NR.2.1

6.NR.2.1 "Describe and interpret the center of the distribution by the equal share value (mean)."

NAME _____ DATE _____

SHARE IT EVENLY

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. The mean can be between the smallest and largest values.

WORKED EXAMPLE

Four bins hold 9, 13, 17, and 21 markers. What is the equal-share value?

1. Add the markers: 9 + 13 + 17 + 21 = 60.
2. Count the bins: 4.
3. Divide equally: 60 / 4 = 15.
4. Each bin would have 15 markers after an equal share.

Answer: 15 markers

PRACTICE 6 problems

1 Find the mean of 6, 8, 10, 12, and 14.

ANSWER _____

2 A player earned 18, 22, 26, 30, and 34 points in five games. What was the mean number of points per game?

ANSWER _____

3 Find the mean of 24, 28, 20, 32, and 16.

ANSWER _____

4 The mean of five temperatures is 24 degrees. Four temperatures are 20, 23, 25, and 26 degrees. What is the fifth temperature?

ANSWER _____

5 A team scored 12, 16, 20, 24, 28, and 32 points in six games. Find the mean. What would this mean if the points were shared equally among the games?

ANSWER _____

6 Five students have $5, $10, $20, $25, and $30. What is the equal-share value?

ANSWER _____

APPLY IT Show your work

1 In a gaming club, Jalen wants a mean score of 25 points after five rounds. His first four scores are 20, 22, 27, and 29 points. What score must he earn in the fifth round?

WORK SPACE

ANSWER _____

2 Six friends each add songs to a shared playlist. They add 12, 18, 24, 30, 36, and 42 songs. What is the mean number of songs added per friend? Explain what the mean means in this situation.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Seven art club members made 18, 23, 26, 31, 34, 37, and x posters. The mean number of posters is 30. Find x, then explain how the mean helped you find it.

WORK SPACE AND ANSWER

ANSWER KEY

Fair Share Finds

GRADE 6 · 6.NR.2.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find the mean of 6, 8, 10, 12, and 14.	**10**
2	A player earned 18, 22, 26, 30, and 34 points in five games. What was the mean number of points per game?	**26 points**
3	Find the mean of 24, 28, 20, 32, and 16.	**24**
4	The mean of five temperatures is 24 degrees. Four temperatures are 20, 23, 25, and 26 degrees. What is the fifth temperature?	**26 degrees**
5	A team scored 12, 16, 20, 24, 28, and 32 points in six games. Find the mean. What would this mean if the points were shared equally among the games?	**22 points; each game would have 22 points after an equal share.**
6	Five students have $5, $10, $20, $25, and $30. What is the equal-share value?	**$18**

PART 2 · APPLY IT

1. **27 points** A mean of 25 points for five rounds requires 125 total points. The first four rounds total 98 points, so 125 - 98 = 27 points.
2. **27 songs per friend; if the songs were shared equally, each friend would have added 27 songs.** The total is 162 songs. Divide 162 by 6 to get a mean of 27 songs per friend.

CHALLENGE

x = 41.

Accept equivalent statements that identify the mean as the amount each group or person would have after equal sharing. Require units in word-problem and challenge answers; for the challenge, accept x = 41 with a correct total-of-210 explanation.