LESSON MAKER PRO

What Numbers Tell

Find the mean and range, then explain them.

GRADE 6 · 6.DSP.A.23.b

6.DSP.A.23.b "Interpret the measures of center and variability in the context of a problem."

NAME _____ DATE _____

MEAN AND RANGE

To find the mean, add the values and divide by the number of values. The mean tells the average amount. To find the range, subtract the least value from the greatest value. The range tells how far apart those values are.

WORKED EXAMPLE

The dots show how many minutes five students spent packing their bags. Find the mean and range. What do they tell you?



1. Add: 11 + 12 + 13 + 14 + 15 = 65.
2. Divide: 65 / 5 = 13 minutes.
3. Subtract: 15 - 11 = 4 minutes.

Answer: The mean is 13 minutes per student. The range is 4 minutes between the shortest and longest times.

PRACTICE 4 problems

1 Three clubs posted 3, 5, and 7 photos. Find the mean. What does it tell you?

ANSWER _____

2 Three students took 4, 6, and 9 minutes to solve a puzzle. Find the range. What does it tell you?

ANSWER _____

3 Four students chose 2, 4, 6, and 8 songs. Find the mean. What does it tell you?

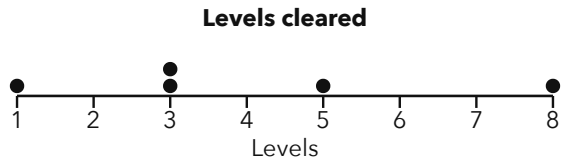
ANSWER _____

4 A player scored 2, 7, and 10 points in three rounds. Find the range. What does it tell you?

ANSWER _____

APPLY IT Show your work

1 The dots show levels cleared in five gaming sessions. Find the mean and range. Explain each in this setting.



ANSWER _____

2 At a school fair, four friends waited 2, 4, 8, and 10 minutes for a game. Find the mean and range. Explain each in this setting.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Team A practiced for 4, 6, and 8 minutes. Team B practiced for 2, 6, and 10 minutes. Both teams have the same mean. Which team's times varied more? Use both ranges to explain.

WORK SPACE AND ANSWER

ANSWER KEY

What Numbers Tell

GRADE 6 · 6.DSP.A.23.b

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Three clubs posted 3, 5, and 7 photos. Find the mean. What does it tell you?	**The mean is 5 photos per club.**
2	Three students took 4, 6, and 9 minutes to solve a puzzle. Find the range. What does it tell you?	**The range is 5 minutes between the shortest and longest times.**
3	Four students chose 2, 4, 6, and 8 songs. Find the mean. What does it tell you?	**The mean is 5 songs per student.**
4	A player scored 2, 7, and 10 points in three rounds. Find the range. What does it tell you?	**The range is 8 points between the lowest and highest scores.**

PART 2 · APPLY IT

1. **The mean is 4 levels per session. The range is 7 levels between the fewest and most cleared.** The total is 20 levels, and 20 / 5 = 4. Subtract 1 from 8 to get a range of 7.
2. **The mean wait was 6 minutes per friend. The range was 8 minutes between the shortest and longest waits.** The waits total 24 minutes, and 24 / 4 = 6. Subtract 2 from 10 to get a range of 8 minutes.

CHALLENGE

Team B's times varied more. Its range is 8 minutes, while Team A's range is 4 minutes.

Accept equivalent wording that gives the correct unit and explains what the mean or range measures in the setting.