LESSON MAKER PRO

Range Detectives

Find how far data values spread.

GRADE 5 · 5.PS.2.e

5.PS.2.e "Describe and determine the range of a set of data values representing data from a given context as a measure of spread."

NAME _____ DATE _____

FIND THE RANGE

The range tells how spread out a set of data values is. Subtract the smallest value from the largest value.

WORKED EXAMPLE

Find the range of these data values: 32, 45, 38, 41.

1. The smallest value is 32.
2. The largest value is 45.
3. Subtract: 45 - 32 = 13.

Answer: The range is 13.

PRACTICE 6 problems

1 Find the range of 3, 7, 5, 9.

ANSWER _____

2 Find the range of 28, 24, 26, 30.

ANSWER _____

3 A set of data has a smallest value of 47 and a largest value of 54. Find the range.

ANSWER _____

4 Find the range of 16, 19, 15, 20.

ANSWER _____

5 Find the range of 34, 39, 36, 40.

ANSWER _____

6 A data set has a smallest value of 60 and a largest value of 69. Find the range. Then describe what the range tells about the data.

ANSWER _____

APPLY IT Show your work

1 The table shows the points a player earned in five rounds of an arcade game. What is the range of the scores?

ARCADE GAME SCORES

Round	Points
1	12
2	21
3	18
4	16
5	23

ANSWER _____

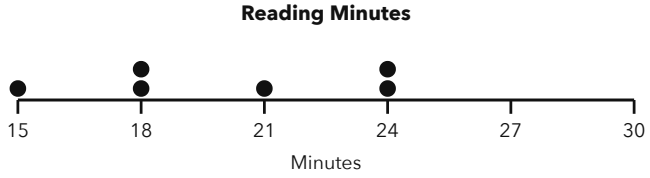
2 Four teams in a gaming club earned 72, 68, 75, and 70 points. What is the range of the team scores?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The dot plot shows the number of minutes six students spent reading. What one value could be added so the range is 15 minutes, but the smallest value stays the same? Explain your reasoning.



WORK SPACE AND ANSWER

ANSWER KEY

Range Detectives

GRADE 5 · 5.PS.2.e

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find the range of 3, 7, 5, 9.	**6**
2	Find the range of 28, 24, 26, 30.	**6**
3	A set of data has a smallest value of 47 and a largest value of 54. Find the range.	**7**
4	Find the range of 16, 19, 15, 20.	**5**
5	Find the range of 34, 39, 36, 40.	**6**
6	A data set has a smallest value of 60 and a largest value of 69. Find the range. Then describe what the range tells about the data.	**9; the values spread from 60 to 69, a span of 9.**

PART 2 · APPLY IT

1. **11 points** The smallest score is 12 and the largest score is 23. Subtract 23 - 12 to get 11 points.
2. **7 points** The smallest score is 68 and the largest score is 75. Subtract 75 - 68 to get 7 points.

CHALLENGE

30 minutes. The smallest value remains 15, and 30 - 15 = 15.

Accept a correct subtraction of the smallest value from the largest value. For written descriptions, accept equivalent wording that identifies the span from the minimum to the maximum.