Name_____ Date_____ Period_____

LESSON 2-5 · SESSION 2 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Find the Range and IQR

Builds on Lesson 2-5 Session 1 · 6.SP.B.5c

TODAY'S LESSON	In problem 2 you find the range and the IQR of each vending machine's sales.
YOU NEED TO	Find the range and the IQR of a data set. **You will use it in Practice Form A, problems 2 and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Order** the data. Range = max − min.
2. Find the quartiles, **Q1** and Q3.
3. **IQR** = Q3 − Q1.

WATCH ME

the steps in action

Find the range and the IQR of 22, 15, 30, 18, 27, 12, 35.

Step 1 12, 15, 18, 22, 27, 30, 35. Range = 35 − 12 = 23.

Step 2 Q1 = 15. Q3 = 30.

Step 3 IQR = 30 − 15 = 15.

Answer **range 23, IQR 15**

TRY IT WITH HELP

fill in each step

1. Find the range and the IQR of 4, 7, 10, 15, 19, 21, 25.

Step 1 Range = 25 − 4 = _____.

Step 2 Q1 = _____. Q3 = _____.

Step 3 IQR = _____.

2. Find the range and the IQR of 23, 28, 30, 36, 41, 45.

Step 1 Range = 45 − 23 = _____.

Step 2 Q1 = _____. Q3 = _____.

Step 3 IQR = _____.

YOUR TURN

use the steps on your own

3. Each list is in order. Write the range and the IQR.

a. 50, 52, 59, 63, 70, 72, 75 _____

b. 8, 12, 13, 20, 26, 31, 33 _____

c. 101, 104, 110, 118, 120 _____

d. 66, 70, 75, 80, 92, 95 _____

Compare Box Widths

Builds on Lesson 2-4 Session 2 · 6.SP.B.4

TODAY'S LESSON	In problem 8, Bus 1's box is narrow. A narrow box means predictable.
YOU NEED TO	Find two box widths and tell which group is more consistent. **You will use it in Practice Form A, problems 3 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find each box **width**: Q3 − Q1.
2. **Compare** the two widths.
3. The **narrower** box is more consistent.

WATCH ME

the steps in action

Box A goes from 20 to 26. Box B goes from 18 to 34. Which is more consistent?

Step 1 A: 26 − 20 = 6. B: 34 − 18 = 16.

Step 2 6 < 16.

Step 3 Box A is narrower.

Answer **Group A is more consistent.**

TRY IT WITH HELP

fill in each step

4. Box C goes from 30 to 44. Box D goes from 31 to 37.

Step 1 C: 44 − 30 = _____. D: 37 − 31 = _____.

Step 2 _____ is narrower.

Step 3 The more consistent group is _____.

5. Box P goes from 12 to 19. Box Q goes from 40 to 46.

Step 1 P: 19 − 12 = _____. Q: 46 − 40 = _____.

Step 2 _____ is narrower.

Step 3 The more consistent group is _____.

YOUR TURN

use the steps on your own

6. Find each box width (Q3 − Q1).

a. Q1 12, Q3 19: _____ **b.** Q1 30, Q3 44: _____ **c.** Q1 55, Q3 61: _____

d. Q1 8, Q3 23: _____ **e.** Q1 71, Q3 90: _____ **f.** Q1 40, Q3 46: _____

READY CHECK

a problem like the one in today's lesson

7. Box A is 6 wide. Box B is 15 wide. Which is true?

A A is more spread out. **B** B is more consistent.

C A is more consistent. **D** They have the same spread.

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____