



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Find a five-number summary.
- ✓ Compute the interquartile range (IQR).
- ✓ Find outlier bounds.
- ✓ Interpret spread from a box plot.



Section A · Concept Check

- BEGINNER

$$4 \times 1 = 4$$

- 1 The five-number summary of 3,5,7,9,11,13,15 is:

☐ A. Min 3, Q1 5, Median 9, Q3 13, Max 15

☐ B. Min 3, Q1 7, Median 9, Q3 11, Max 15

☐ C. Min 5, Q1 7, Median 9, Q3 11, Max 13

☐ D. Min 3, Q1 6, Median 8, Q3 12, Max 15

2 The IQR of that dataset is:

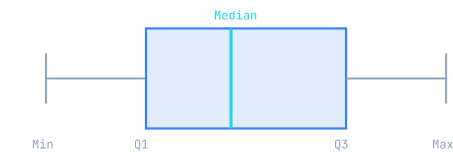
☐ A. 8 ☐ B. 10 ☐ C. 6 ☐ D. 12

3 If $Q1 = 50$ and $Q3 = 75$, the IQR is:

☐ A. 25 ☐ B. 125 ☐ C. 15 ☐ D. 62.5

4 The upper outlier bound is $Q3 + ___ \times \text{IQR}$:

☐ A. 1.5 ☐ B. 2 ☐ C. 1 ☐ D. 3



The five-number summary • $IQR = Q3 - Q1$



Section B · Problem Solving

- INTERMEDIATE

$$2 + 3 \times 3 = 11$$

- 5 IQR = $Q3 -$ _____
- 6 The IQR of 3,5,7,9,11,13,15 is _____
- 7 Find the five-number summary of 3, 5, 7, 9, 11, 13, 15.

- 8 Find the IQR for that dataset.
-
- 9 Find the lower and upper outlier bounds for that dataset.



Section C · Challenge

- CHALLENGE

5

- 10** Find the IQR if $Q1 = 50$ and $Q3 = 75$.

🌱 Reflection — the most useful thing I learned:

A ___/4 B ___/11 C ___/5 **Total ___/20**

Teacher's Signature

Parent's Signature

⌘ ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 Q1 6 8 7 = Min=3, Q1=5, Median=9, Q3=13, Max=15 8 = 8 9 = Lower
-7, Upper 25 | 10 = 25