

Name: _____

Date: _____

An outlier sits beyond $Q1 - 1.5(IQR)$ or $Q3 + 1.5(IQR)$. Compute the fences, then check. Last two are challenge problems!

1. $Q1 = 20$, $Q3 = 40$. Find the IQR.

show your work

2. Same: find $1.5 \times IQR$.

show your work

3. Same: find the lower fence $Q1 - 1.5(IQR)$.

show your work

4. Same: find the upper fence $Q3 + 1.5(IQR)$.

show your work

5. Is 75 an outlier for those fences (-10 to 70)?

show your work

6. Is 0 an outlier for fences -10 to 70?

show your work

7. Data 3,5,6,7,8,9,40. Which value looks like an outlier?

show your work

8. Which measure does an outlier affect more: mean or median?

show your work

9. A set has $Q1 = 12$, $Q3 = 20$. ★ CHALLENGE
Compute both fences and decide if 34 is an outlier.

show your work

10. Removing the outlier 40 from ★ CHALLENGE
3,5,6,7,8,9,40: describe what happens to the mean vs the median.

show your work