

Name: _____

Date: _____

Standard deviation measures SPREAD - how far values sit from the mean. Bigger SD = more spread. Use the calculator for the numbers.

1. Which is more spread out:
 $\{9,10,11\}$ or $\{2,10,18\}$?

show your work

2. Both sets have mean 10. Which
has the SMALLER standard
deviation?

show your work

3. If every value in a set is identical
(5,5,5,5), the standard deviation is?

show your work

4. Set A: SD = 2. Set B: SD = 9.
Which is more consistent?

show your work

5. Two classes average 80. Class X: SD 3. Class Y: SD 12. Whose scores are more alike?

show your work

6. Does adding 5 to every value change the mean? Change the SD?

show your work

7. Compare mean AND SD of $\{50, 50, 50\}$ vs $\{30, 50, 70\}$. (Trainer echo - June 2025 Q4 idea!)

show your work

8. Which set likely has SD closest to 0: daily temps in a desert week or a stormy week?

show your work

9. Set $\{2, 4, 6, 8, 10\}$ vs $\{6, 6, 6, 6, 6\}$. ★ CHALLENGE
same mean? Which has $SD = 0$,
and why?

show your work

10. A test's scores have mean 75, SD 5. Roughly what range holds most scores (within 1 SD)? ★ CHALLENGE

show your work