

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

Farther from mean

Answer: {2,10,18}

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

Tighter cluster

Answer: {9,10,11}

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

No spread

Answer: 0

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

Smaller SD = consistent

Answer: Set A

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

Smaller SD

Answer: Class X

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

Shifts center, not spread

Answer: mean +5; SD unchanged

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

Same mean 50; second more spread

Answer: same mean; second has bigger SD

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

Consistent = low SD

Answer: desert (steady temps)

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

Both mean 6

Identical values = no spread

Answer: same mean 6; second SD = 0

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

75 - 5 to 75 + 5

Answer: about 70 to 80