Name: _____ Date: _____

Fresh Math

Comparing Data Displays - Medium

Compare the two distributions. Which has the greater center? Which is more spread out?

1. Both symmetric. Class A: mean 48, standard deviation 12. Class B: mean 66, standard deviation 7.
2. Both symmetric. Morning: mean 54, standard deviation 6. Evening: mean 69, standard deviation 7.
3. Both symmetric. Store 1: mean 50, standard deviation 13. Store 2: mean 72, standard deviation 14.
4. Both symmetric. Brand A: mean 32, standard deviation 7. Brand B: mean 58, standard deviation 9.
5. Both symmetric. Morning: mean 74, standard deviation 11. Evening: mean 45, standard deviation 7.
6. Both symmetric. 2023: mean 21, standard deviation 10. 2024: mean 77, standard deviation 8.
7. Both symmetric. Team X: mean 70, standard deviation 5. Team Y: mean 24, standard deviation 15.
8. Both symmetric. 2023: mean 40, standard deviation 8. 2024: mean 85, standard deviation 11.
9. Both symmetric. Morning: mean 28, standard deviation 6. Evening: mean 40, standard deviation 5.
10. Both symmetric. Team X: mean 43, standard deviation 11. Team Y: mean 83, standard deviation 15.

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Comparing Data Displays - Medium

Compare the two distributions. Which has the greater center? Which is more spread out?

11. Both skewed right. Team X: median 49, IQR 3. Team Y: median 36, IQR 9.

12. Both symmetric. Morning: mean 45, standard deviation 6. Evening: mean 44, standard deviation 11.

13. Both symmetric. Team X: mean 35, standard deviation 14. Team Y: mean 25, standard deviation 13.

14. Both skewed right. Class A: median 88, IQR 9. Class B: median 84, IQR 15.

15. Both symmetric. Morning: mean 34, standard deviation 13. Evening: mean 29, standard deviation 9.

16. Both symmetric. Store 1: mean 87, standard deviation 9. Store 2: mean 68, standard deviation 14.

17. Both symmetric. Morning: mean 64, standard deviation 11. Evening: mean 66, standard deviation 4.

18. Both symmetric. Class A: mean 32, standard deviation 11. Class B: mean 27, standard deviation 14.

19. Both skewed right. Store 1: median 38, IQR 10. Store 2: median 47, IQR 12.

20. Both symmetric. Store 1: mean 52, standard deviation 4. Store 2: mean 56, standard deviation 3.

Comparing Data Displays - Medium - Answer Key

1. Both symmetric. Class A: mean 48, standard deviation 12. Class B: mean 66, standard deviation 7.

   Class B has the greater mean (by 18); Class A is more spread out

2. Both symmetric. Morning: mean 54, standard deviation 6. Evening: mean 69, standard deviation 7.

   Evening has the greater mean (by 15); Evening is more spread out

3. Both symmetric. Store 1: mean 50, standard deviation 13. Store 2: mean 72, standard deviation 14.

   Store 2 has the greater mean (by 22); Store 2 is more spread out

4. Both symmetric. Brand A: mean 32, standard deviation 7. Brand B: mean 58, standard deviation 9.

   Brand B has the greater mean (by 26); Brand B is more spread out

5. Both symmetric. Morning: mean 74, standard deviation 11. Evening: mean 45, standard deviation 7.

   Morning has the greater mean (by 29); Morning is more spread out

6. Both symmetric. 2023: mean 21, standard deviation 10. 2024: mean 77, standard deviation 8.

   2024 has the greater mean (by 56); 2023 is more spread out

7. Both symmetric. Team X: mean 70, standard deviation 5. Team Y: mean 24, standard deviation 15.

   Team X has the greater mean (by 46); Team Y is more spread out

8. Both symmetric. 2023: mean 40, standard deviation 8. 2024: mean 85, standard deviation 11.

   2024 has the greater mean (by 45); 2024 is more spread out

9. Both symmetric. Morning: mean 28, standard deviation 6. Evening: mean 40, standard deviation 5.

   Evening has the greater mean (by 12); Morning is more spread out

10. Both symmetric. Team X: mean 43, standard deviation 11. Team Y: mean 83, standard deviation 15.

    Team Y has the greater mean (by 40); Team Y is more spread out

Comparing Data Displays - Medium - Answer Key

11. Both skewed right. Team X: median 49, IQR 3. Team Y: median 36, IQR 9.

    Team X has the greater median (by 13); Team Y is more spread out

12. Both symmetric. Morning: mean 45, standard deviation 6. Evening: mean 44, standard deviation 11.

    Morning has the greater mean (by 1); Evening is more spread out

13. Both symmetric. Team X: mean 35, standard deviation 14. Team Y: mean 25, standard deviation 13.

    Team X has the greater mean (by 10); Team X is more spread out

14. Both skewed right. Class A: median 88, IQR 9. Class B: median 84, IQR 15.

    Class A has the greater median (by 4); Class B is more spread out

15. Both symmetric. Morning: mean 34, standard deviation 13. Evening: mean 29, standard deviation 9.

    Morning has the greater mean (by 5); Morning is more spread out

16. Both symmetric. Store 1: mean 87, standard deviation 9. Store 2: mean 68, standard deviation 14.

    Store 1 has the greater mean (by 19); Store 2 is more spread out

17. Both symmetric. Morning: mean 64, standard deviation 11. Evening: mean 66, standard deviation 4.

    Evening has the greater mean (by 2); Morning is more spread out

18. Both symmetric. Class A: mean 32, standard deviation 11. Class B: mean 27, standard deviation 14.

    Class A has the greater mean (by 5); Class B is more spread out

19. Both skewed right. Store 1: median 38, IQR 10. Store 2: median 47, IQR 12.

    Store 2 has the greater median (by 9); Store 2 is more spread out

20. Both symmetric. Store 1: mean 52, standard deviation 4. Store 2: mean 56, standard deviation 3.

    Store 2 has the greater mean (by 4); Store 1 is more spread out