



# Math Worksheet for 6th Grade

## Mean and median challenge problems

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

---

### Answers

1.  $x = 9$

2.  $x = 12$

3.  $x = 10$

4.  $x = 15$

5.  $x = 10$

6.  $x = 21$

7.  $x = 3$

8.  $x = 11$

9.  $x = 9$

10.  $x = 15$

11.  $x = 2$

12.  $x = 10$

13.  $x = 3$

14.  $x = 13$

15.  $x = 8$

16.  $x = 31$

17.  $x = 2$

18.  $x = 7$

19.  $x = 17$

20.  $x = 8$

21. Original mean = 6.6, median = 4. After removing 20: mean = 3.25, median = 3.5. Mean decreases; median decreases.

22. Original mean = 29.5, median = 6.5. After removing 100: mean = 6, median = 6. Mean decreases; median decreases.

23. Original mean = 207.6, median = 10. After removing 1000: mean = 9.5, median = 9.5. Mean decreases; median decreases.

24. Original mean = 12.2, median = 3. After removing 50: mean = 2.75, median = 2.5. Mean decreases; median decreases.

25. Original mean = 32, median = 15. After removing 100: mean = 15, median = 15. Mean decreases; median stays the same.

26. Original mean = 5.83, median = 3.5. After removing 20: mean = 3, median = 3. Mean decreases; median decreases.

27. Original mean = 15.6, median = 7. After removing 50: mean = 7, median = 7. Mean decreases; median stays the same.



## Math Worksheet for 6th Grade

### Mean and median challenge problems

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

28. Original mean = 24.4, median = 6. After removing 100: mean = 5.5, median = 5.5. Mean decreases; median decreases.
29. Original mean = 30.4, median = 14. After removing 100: mean = 13, median = 13. Mean decreases; median decreases.
30. Original mean = 12.8, median = 4. After removing 50: mean = 3.5, median = 3.5. Mean decreases; median decreases.
31. Original mean = 36.6, median = 21. After removing 100: mean = 20.75, median = 20.5. Mean decreases; median decreases.
32. Original mean = 11, median = 5. After removing 50: mean = 4.5, median = 4.5. Mean decreases; median decreases.
33. Original mean = 11.83, median = 5. After removing 50: mean = 4.2, median = 5. Mean decreases; median stays the same.
34. Original mean = 25.83, median = 11.5. After removing 100: mean = 11, median = 11. Mean decreases; median decreases.
35. Original mean = 16, median = 7.5. After removing 60: mean = 7.2, median = 7. Mean decreases; median decreases.
36. Original mean = 3, median = 3. After change: mean = 12, median = 3. Mean increases; median stays the same.
37. Original mean = 14, median = 14. After change: mean = 20.4, median = 14. Mean increases; median stays the same.
38. Original mean = 5, median = 5. After change: mean = 8, median = 5. Mean increases; median stays the same.
39. Original mean = 4, median = 4. After change: mean = 6.8, median = 4. Mean increases; median stays the same.
40. Original mean = 22, median = 3. After change: mean = 42, median = 3. Mean increases; median stays the same.
41. Original mean = 8.5, median = 8.5. After change: mean = 13.5, median = 8.5. Mean increases; median stays the same.
42. Original mean = 23.6, median = 5. After change: mean = 203.6, median = 5. Mean increases; median stays the same.
43. Original mean = 7, median = 7. After change: mean = 10, median = 7. Mean increases; median stays the same.
44. Original mean = 2.5, median = 2.5. After change: mean = 4.75, median = 2.5. Mean increases; median stays the same.
45. Original mean = 7, median = 7. After change: mean = 16, median = 7. Mean increases; median stays the same.
46. Original mean = 26.5, median = 2.5. After change: mean = 51.5, median = 2.5. Mean increases; median stays the same.
47. Original mean = 5.2, median = 5. After change: mean = 7.8, median = 5. Mean increases; median stays the same.
48. Original mean = 3.4, median = 3. After change: mean = 5.4, median = 3. Mean increases; median stays the same.
49. Original mean = 12, median = 12. After change: mean = 30, median = 12. Mean increases; median stays the same.
50. Original mean = 2.6, median = 1. After change: mean = 4.8, median = 1. Mean increases; median stays the same.