Mean, median, mode and range in context worksheet – Grade 9

Grade 9 · Mixed level · 20 questions · **Version X1453**

Name: _____ Date: _____ Score: ___ / 20

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1. A shoe store wants to stock the most popular size. Which average should it use?

   A. Mode **B.** Mean **C.** Median **D.** Range

2. Salaries in thousands of dollars are 54, 51, 49, 232, 52. What is the mean, to one decimal place?

   Answer: _____

3. Salaries in thousands of dollars are 60, 54, 56, 227, 57. What is the range?

   Answer: _____

4. Salaries in thousands of dollars are 47, 58, 47, 54, 191. What is the mean, to one decimal place?

   Answer: _____

5. Salaries in thousands of dollars are 59, 174, 51, 52, 55, 49, 49. What is the range?

   Answer: _____

6. Salaries in thousands of dollars are 57, 53, 59, 228, 56. What is the median?

   Answer: _____

7. Salaries in thousands of dollars are 186, 37, 46, 38, 47, 39, 47. What is the range?

   Answer: _____

8. The top salary in 41, 38, 45, 223, 47 is removed. What is the new mean, to one decimal place?

   Answer: _____

9. Homework is worth 30% and the exam 70%. Hana has 71 and 74. What is the final mark, to one decimal place?

   Answer: _____

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10. For the salaries 66, 60, 228, 62, 60, 58, 61, which average best describes a typical worker?
    A. Median **B.** Mean **C.** Range **D.** Maximum

11. For the salaries 65, 56, 64, 184, 55, which average best describes a typical worker?
    A. Median **B.** Mean **C.** Range **D.** Maximum

12. Chloe has 81, 81, 76, 71 on four tests. What mark on a fifth test gives a mean of 74?

    Answer: _____

13. The top salary in 56, 51, 49, 58, 60, 59, 235 is removed. What is the new mean, to one decimal place?

    Answer: _____

14. Homework is worth 40% and the exam 60%. Lucas has 75 and 62. What is the final mark, to one decimal place?

    Answer: _____

15. Everyone in 35, 41, 42, 37, 152 gets a 20% raise. What is the new median, to one decimal place?

    Answer: _____

16. Everyone in 58, 184, 64, 63, 60, 63, 62 gets a 50% raise. What is the new median, to one decimal place?

    Answer: _____

17. Everyone in 70, 60, 64, 59, 165 gets a 1 thousand dollar raise. What is the new median?

    Answer: _____

18. A report says "average income rose", but most workers earn the same. What could explain it?
    A. A few very high incomes went up **B.** Everyone earns more **C.** The median doubled
    D. The data is impossible

19. Everyone in 213, 69, 71, 67, 65, 68, 59 gets a 2 thousand dollar raise. What is the new range?

    Answer: _____

20. Everyone in 66, 59, 58, 66, 239 gets a 2 thousand dollar raise. What is the new range?

    Answer: _____

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Answer key · Version X1453

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1. **A (Mode)**
2. **87.6**
3. **173**
4. **79.4**
5. **125**
6. **57**
7. **149**
8. **42.8**
9. **73.1**
10. **A (Median)**
11. **A (Median)**
12. **61**
13. **55.5**
14. **67.2**
15. **49.2**
16. **94.5**
17. **65**
18. **A (A few very high incomes went up)**
19. **154**
20. **181**

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