Worksheet

05/10/2021

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Problem quickname: 3103

<u>1)</u>

Determine the requested value for the given set of numbers.

a) The mean value of : 49,15,9,5,19,15,7 Mean value: 17
b) The median of: 6,23,24,45,21,43,6 Median: 23
c) The median of: 11,19,21,9,20,30,3,3,37 Median: 19
d) The mean value of : 28,9,6,4,33,11,9,25,46 Mean value: 19
e) The median of: 47,8,8,46,46,10,24 Median: 24
f) The median of: 23,34,37,23,7,48,3 Median: 23
g) The median of: 24,2,27,28,46,27,7 Median: 27
h) The mean value of : 8,22,44,28,22,40,17,7,46 Mean value: 26
i) The median of: 18,4,40,6,16,6,17,5 Median: 11
j) The median of: 48,8,35,10,28,8,9,38 Median: 19

<u>2)</u>

Determine the requested value for the given set of numbers.

   a) The mean value of : $-19, -14, -11, -11, -4, 2, 7, 9, 14$

      1. Calculate the sum of the numbers: Sum $= -27$.

      2. Divide the sum by the number of numbers: $-27 \div 9 = -3$.

      Mean value: -3

   b) The median of: $-4, -3, 3, 4, 6, 10, 10, 17, 20$

      1. Sort the numbers in ascending order: $-4, -3, 3, 4, 6, 10, 10, 17, 20$

      2. As the number of numbers is odd, the middle number is the median. The middle number is 6.

      Median: 6

   c) The mean value of : $-11, -6, -5, -3, 0, 0, 13, 15, 15, 17, 20$

      1. Calculate the sum of the numbers: Sum $= 55$.

      2. Divide the sum by the number of numbers: $55 \div 11 = 5$.

      Mean value: 5

d) The mean value of : $-12, -12, -8, -8, 4, 8, 14, 17, 18, 19$

    1. Calculate the sum of the numbers: Sum $= 40$.

    2. Divide the sum by the number of numbers: $40 \div 10 = 4$.

    Mean value: 4

e) The median of: $-8, -4, 2, 8, 12, 12, 16, 16, 18$

    1. Sort the numbers in ascending order: $-8, -4, 2, 8, 12, 12, 16, 16, 18$

    2. As the number of numbers is odd, the middle number is the median. The middle number is 12.

    Median: 12

f) The mean value of : $-11, -9, -6, -2, -1, 5, 8, 8, 17$

    1. Calculate the sum of the numbers: Sum $= 9$.

    2. Divide the sum by the number of numbers: $9 \div 9 = 1$.

    Mean value: 1

g) The mean value of : $-20, -13, -13, -13, -10, -7, -5, -1, 2, 7, 7$

    1. Calculate the sum of the numbers: Sum $= -66$.

    2. Divide the sum by the number of numbers: $-66 \div 11 = -6$.

    Mean value: -6

h) The median of: $-18, -18, -17, -16, -9, -7, -6, -1, 0, 2$

    1. Sort the numbers in ascending order:
    $-18, -18, -17, -16, -9, -7, -6, -1, 0, 2$

    2. As the number of numbers is even, the median is determined by adding the two middle numbers and dividing the result by two. The middle numbers are -9 und -7. $(-9 + -7) \div 2 = -8$.

    Median: -8

i) The median of: $-20, -7, -4, -2, -2, 10, 10, 12, 16, 17$

    1. Sort the numbers in ascending order: $-20, -7, -4, -2, -2, 10, 10, 12, 16, 17$

    2. As the number of numbers is even, the median is determined by adding the two middle numbers and dividing the result by two. The middle numbers are -2 und 10. $(-2 + 10) \div 2 = 4$.

    Median: 4

j) The mean value of : $-18, -17, -16, -13, -4, 0, 6, 14, 19, 19$

    1. Calculate the sum of the numbers: Sum $= -10$.

    2. Divide the sum by the number of numbers: $-10 \div 10 = -1$.

    Mean value: -1

<u>3)</u>

Determine the requested value for the given set of numbers.

a) The median of: $-2, -18, 12, 15, -15, -15, -5$

1. Sort the numbers in ascending order: $-18, -15, -15, -5, -2, 12, 15$

2. As the number of numbers is odd, the middle number is the median. The middle number is -5.

Median: -5

b) The median of: $-8, -10, -1, -5, -6, -1, 3$

1. Sort the numbers in ascending order: $-10, -8, -6, -5, -1, -1, 3$

2. As the number of numbers is odd, the middle number is the median. The middle number is -5.

Median: -5

c) The mean value of : $-14, -4, -13, 19, 12, 0, 17, -9, 19$

1. Calculate the sum of the numbers: Sum $= 27$.

2. Divide the sum by the number of numbers: $27 \div 9 = 3$.

Mean value: 3

d) The mean value of : $14, -13, 4, -14, -7, 19, -3, 19, -1$

1. Calculate the sum of the numbers: Sum $= 18$.

2. Divide the sum by the number of numbers: $18 \div 9 = 2$.

Mean value: 2

e) The mean value of : $4, -4, 10, 1, 4, 15, -16$

1. Calculate the sum of the numbers: Sum $= 14$.

2. Divide the sum by the number of numbers: $14 \div 7 = 2$.

Mean value: 2

f) The mean value of : $-18, -17, -16, -5, -17, -13, 16$

1. Calculate the sum of the numbers: Sum $= -70$.

2. Divide the sum by the number of numbers: $-70 \div 7 = -10$.

Mean value: -10

g) The median of: $-18, 11, -18, 13, -13, 9, 2$

1. Sort the numbers in ascending order: $-18, -18, -13, 2, 9, 11, 13$

2. As the number of numbers is odd, the middle number is the median. The middle number is 2.

Median: 2

h) The mean value of : $13, 4, -1, -1, -5, 2, -5$

1. Calculate the sum of the numbers: Sum $= 7$.

2. Divide the sum by the number of numbers: $7 \div 7 = 1$.

Mean value: 1

i) The mean value of : $-11, 17, -3, -5, 17, -15, 1, 12, -4$

1. Calculate the sum of the numbers: Sum $= 9$.

2. Divide the sum by the number of numbers: $9 \div 9 = 1$.

Mean value: 1

j) The median of: $-10, -11, 0, 3, 19, -8, 0$

1. Sort the numbers in ascending order: $-11, -10, -8, 0, 0, 3, 19$

2. As the number of numbers is odd, the middle number is the median. The middle number is 0.

Median: 0

4)

Determine the requested value for the given set of numbers.

a) The median of: $10, 16, 17, 36, 42, 45, 54, 75, 92$

1. Sort the numbers in ascending order: $10, 16, 17, 36, 42, 45, 54, 75, 92$

2. As the number of numbers is odd, the middle number is the median. The middle number is 42.

Median: 42

b) The mean value of : $21, 27, 73, 74, 83, 95, 96$

1. Calculate the sum of the numbers: Sum $= 469$.

2. Divide the sum by the number of numbers: $469 \div 7 = 67$.

Mean value: 67

c) The median of: $9, 12, 21, 42, 44, 58, 59, 73, 87$

1. Sort the numbers in ascending order: $9, 12, 21, 42, 44, 58, 59, 73, 87$

2. As the number of numbers is odd, the middle number is the median. The middle number is 44.

Median: 44

d) The mean value of : $7, 11, 34, 42, 53, 62, 63, 65, 95$

1. Calculate the sum of the numbers: Sum $= 432$.

2. Divide the sum by the number of numbers: $432 \div 9 = 48$.

Mean value: 48

e) The mean value of : 6,19,55,70,73,74,80,88,93

    1. Calculate the sum of the numbers: Sum = 558.

    2. Divide the sum by the number of numbers: $558 \div 9 = 62$.

    Mean value: 62

Good Luck!