Worksheet

04/24/2021

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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 : $-12, -14, -9, -7, 4, -12, 15, -14, 0$

1. Calculate the sum of the numbers: Sum $= -49$.

2. Divide the sum by the number of numbers: $-49 \div 9 = -5$.

Mean value: -5.444

b) The median of: $-20, -7, -18, 5, 20, 5, -9$

1. Sort the numbers in ascending order: -20,-18,-9,-7,5,5,20

2. As the number of numbers is odd, the middle number is the median. The middle number is -7.

Median: -7

c) The median of: $-9, -9, -8, -9, -16, -6, -1$

1. Sort the numbers in ascending order: -16,-9,-9,-9,-8,-6,-1

2. As the number of numbers is odd, the middle number is the median. The middle number is -9.

Median: -9

d) The mean value of : $-11, 4, -8, -12, 7, 3, -18$

1. Calculate the sum of the numbers: Sum $= -35$.

2. Divide the sum by the number of numbers: $-35 \div 7 = -5$.

Mean value: -5

e) The median of: $-19, -13, 7, -19, -5, -6, -6$

1. Sort the numbers in ascending order: -19,-19,-13,-6,-6,-5,7

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

Median: -6

f) The mean value of : $15, -4, -8, 13, -6, -5, 12, -11, 3$

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 : $9, 6, 6, -5, -10, -5, -4$

1. Calculate the sum of the numbers: Sum $= -3$.

2. Divide the sum by the number of numbers: $-3 \div 7 = 0$.

Mean value: -0.429

h) The median of: $17, 1, 12, 15, 12, -16, 12, 13, -2$

1. Sort the numbers in ascending order: -16,-2,1,12,12,12,13,15,17

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

Median: 12

i) The mean value of : $8, -13, 13, 1, 1, -1, -11$

1. Calculate the sum of the numbers: Sum $= -2$.

2. Divide the sum by the number of numbers: $-2 \div 7 = 0$.

Mean value: -0.286

j) The median of: $9, 5, -3, -8, -2, -19, -3, -12, -5$

1. Sort the numbers in ascending order: -19,-12,-8,-5,-3,-3,-2,5,9

2. As the number of numbers is odd, the middle number is the median. The middle number is -3.

Median: -3

2)

Determine the requested value for the given set of numbers.

a) The median of: $9, 29, 52, 54, 61, 65, 83$

1. Sort the numbers in ascending order: 9,29,52,54,61,65,83

2. As the number of numbers is odd, the middle number is the median. The middle number is 54.

Median: 54

b) The median of: $11, 13, 17, 23, 30, 48, 65, 75, 82$

1. Sort the numbers in ascending order: 11,13,17,23,30,48,65,75,82

2. As the number of numbers is odd, the middle number is the median. The middle number is 30.

Median: 30

c) The mean value of : $2, 14, 15, 37, 43, 59, 89$

1. Calculate the sum of the numbers: Sum = 259.

2. Divide the sum by the number of numbers: $259 \div 7 = 37$.

Mean value: 37

d) The mean value of : $16, 34, 38, 46, 64, 72, 87$

1. Calculate the sum of the numbers: Sum = 357.

2. Divide the sum by the number of numbers: $357 \div 7 = 51$.

Mean value: 51

e) The mean value of : $6, 13, 20, 24, 38, 61, 62$

1. Calculate the sum of the numbers: Sum = 224.

2. Divide the sum by the number of numbers: $224 \div 7 = 32$.

Mean value: 32

3)

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Determine the median of the given set of numbers.

a) $-2, -84, -38, 30, -71, -20, 11, 81, 55, 31, 22$

1. Sort the numbers in ascending order: -84,-71,-38,-20,-2,11,22,30,31,55,81

2. As the number of numbers is odd, the middle number is the median. The middle number is 11.

Median: 11

b) $52, -35, -92, -7, 1, 1, -87, -92, 74$

1. Sort the numbers in ascending order: -92,-92,-87,-35,-7,1,1,52,74

2. As the number of numbers is odd, the middle number is the median. The middle number is -7.

Median: -7

c) $-60, -5, -71, -52, 33, 24, -22, 35, 6$

    1. Sort the numbers in ascending order: -71,-60,-52,-22,-5,6,24,33,35

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

    Median: -5

d) $0, 64, -67, 25, 72, 90, 22, 62, -80$

    1. Sort the numbers in ascending order: -80,-67,0,22,25,62,64,72,90

    2. As the number of numbers is odd, the middle number is the median. The middle number is 25.

    Median: 25

e) $-77, 18, 13, -23, -61, 53, -24, 36, -58, 13, 85$

    1. Sort the numbers in ascending order: -77,-61,-58,-24,-23,13,13,18,36,53,85

    2. As the number of numbers is odd, the middle number is the median. The middle number is 13.

    Median: 13

<u>4)</u>

Determine the mean of the given set of numbers.

a) $43, 1, 29, -72, 77, -13, -38, 14, -84, 38, -52$

    1. Calculate the sum of the numbers: Sum $= -57$.

    2. Divide the sum by the number of numbers: $-57 \div 11 = -5$.

    Mean value: -5.182

b) $-73, 52, -73, -63, -73, -77, 91, -14, 86$

    1. Calculate the sum of the numbers: Sum $= -144$.

    2. Divide the sum by the number of numbers: $-144 \div 9 = -16$.

    Mean value: -16

c) $37, 6, -26, -30, -99, -37, -24, -69, -75, 96, 60$

    1. Calculate the sum of the numbers: Sum $= -161$.

    2. Divide the sum by the number of numbers: $-161 \div 11 = -14$.

    Mean value: -14.636

d) $-84, -27, -70, -11, 14, -42, 50, -58, -84, 57, -86$

    1. Calculate the sum of the numbers: Sum $= -341$.

    2. Divide the sum by the number of numbers: $-341 \div 11 = -31$.

    Mean value: -31

e) $74, -46, -72, 31, -88, 40, 36, 10, 7, 52, 0$

    1. Calculate the sum of the numbers: Sum $= 44$.

    2. Divide the sum by the number of numbers: $44 \div 11 = 4$.

    Mean value: 4

Good Luck!