Statistics & Probability

Range = Largest – Smallest

Mean = \( \frac{\text{Sum of all observations}}{\text{Number of observations}} \)

Stem & Leaf Plot:

- Stem 7: 2, 3
- Stem 8: 6, 6
- Stem 9: 4, 7

0 ≤ P(A) ≤ 1

P(S) = 1

Workbook 1

MathWorksheets4Kids.com
# Mean, Median, Mode & Range

Find the mean, median, mode and range in each problem.

1) A fast food restaurant collects the soft drink cans for recycling. The number of cans collected in two weeks are given below.

<table>
<thead>
<tr>
<th>Number of Cans</th>
<th>84, 97, 77, 31, 84, 63, 58, 72, 47, 84, 69, 94, 43, 68</th>
</tr>
</thead>
</table>

Mean: ______  Median: ______  Mode: ______  Range: ______

2) A health centre recorded the height (in cm) of ten male toddlers (one year old) who came for vaccination. The heights are given below.

<table>
<thead>
<tr>
<th>Height (in cm)</th>
<th>64, 71, 70, 68, 71, 75, 66, 65, 71, 69</th>
</tr>
</thead>
</table>

Mean: ______  Median: ______  Mode: ______  Range: ______

3) The Central library has Science books kept in 12 racks. The number of books kept in each rack are given below.

<table>
<thead>
<tr>
<th>Number of Books</th>
<th>40, 58, 62, 36, 42, 58, 56, 58, 71, 66, 47, 73</th>
</tr>
</thead>
</table>

Mean: ______  Median: ______  Mode: ______  Range: ______

4) The retail price of fresh and whole milk (in dollars) per gallon in the United States from 2006 to 2014 is the following.

<table>
<thead>
<tr>
<th>Price (in dollars)</th>
<th>3, 3.9, 3.7, 3.1, 3.3, 3.6, 3.6, 3.5, 3.8</th>
</tr>
</thead>
</table>

Mean: ______  Median: ______  Mode: ______  Range: ______

5) A dendrologist measures the height (in feet) of a Mature Red Maple, Big Leaf Maple, Jack Pine, Eastern White Pine, Loblolly Pine, Salsh Pine, Longleaf Pine, Black spruce and Balsam Fir. The recorded heights are given below.

<table>
<thead>
<tr>
<th>Height (in feet)</th>
<th>73, 68, 73, 85, 92, 81, 88, 35, 48</th>
</tr>
</thead>
</table>

Mean: ______  Median: ______  Mode: ______  Range: ______
Write the outliers for each set of data.

1) 92, 88, 106, 169, 76, 72, 67, 10, 115, 73, 111, 59
Outliers:

2) 20, 52, 86, 80, 44, 49, 57, 41, 44, 55
Outliers:

3) 4, 11.6, 50, 23, 20.1, 19, 29, 12.7, 8, 23, 57.5
Outliers:

4) 67, 71, 79, 65, 52, 71, 73, 94, 69
Outliers:

5) 18, 68, 15, 45, 46, 36, 72, 34, 42, 38
Outliers:

6) 77, 51.4, 82, 91.6, 87, 98, 59, 81.4, 76, 119, 85, 91
Outliers:

7) 6, 24, 84, 13, 9, 30, 25, 7, 21, 33, 71
Outliers:

8) 22, 26, 31, 37, 31, 26, 50, 28, 24
Outliers:
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A card is drawn from a deck of 52 cards.

1) What is the probability of drawing a black card?

2) Find the probability of drawing a red card.

3) What is the probability of drawing a red or black?

4) Find the probability of drawing an ace.

5) What is the probability of drawing either a jack or queen or king?
A box contains 2 red marbles, 3 white marbles, 4 green marbles and 1 blue marble. Two marbles are drawn at random without replacement.

1) Find the probability of selecting a green marble on the second draw, if the first marble is blue.

2) What is the probability of selecting a white marble on the first draw and red marble on the second draw?

3) Find the probability of selecting a red marble on both draws.

4) Determine the probability of selecting a red or white on the first draw and green or blue on the second draw.

5) Find the probability of selecting a white marble on the first draw and a white or blue on the second draw.