

Find the mean, median, and mode of each of the following sets of numbers.

1. 3, 5, 2, 5, 2, 7, 9, 3

Ordered: 2, 2, 3, 3, 5, 5, 7, 9

Sum :  $2 + 2 + 3 + 3 + 5 + 5 + 7 + 9 = 36$

$$\text{Mean} = \frac{36}{8} = \frac{18}{4} = \frac{9}{2}$$

$$\begin{array}{r} 4.5 \\ 2 \overline{) 9.0} \\ \underline{-8} \phantom{0} \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

Mean is 4.5

The median is  $\frac{3+5}{2} = \frac{8}{2} = 4$

The modes are 2, 3, and 5

2. 54, 12, 76, 12, 98, 45, 65, 72

Ordered: 12, 12, 45, 54, 65, 72, 76, 98

Sum :

$$\begin{array}{r} 1 \ 2 \\ 1 \ 2 \\ 4 \ 5 \\ 5 \ 4 \\ 6 \ 5 \\ 7 \ 2 \\ 7 \ 6 \\ + \ 9 \ 8 \\ \hline 4 \ 3 \ 4 \end{array}$$

Mean =  $434 \div 8$

$$\begin{array}{r} 54.25 \\ 8 \overline{) 434.00} \\ \underline{-40} \phantom{00} \\ 34 \\ \underline{-32} \phantom{00} \\ 20 \\ \underline{-16} \phantom{00} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

Mean is 54.25

The median is  $\frac{54+65}{2} = \frac{119}{2} = 59.5$

The mode is 12

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3. 274, 294, 426, 42, 642, 258, 295  
 Ordered: 42, 258, 274, 294, 295, 426, 642  
 Sum :

$$\begin{array}{r}
 42 \\
 258 \\
 274 \\
 294 \\
 295 \\
 426 \\
 642 \\
 + 642 \\
 \hline
 2231
 \end{array}$$

Mean =  $2,231 \div 7$

$$\begin{array}{r}
 318.714 \\
 7 \overline{) 2231.000} \\
 \underline{-21} \phantom{00} \\
 13 \phantom{00} \\
 \underline{-7} \phantom{00} \\
 61 \phantom{00} \\
 \underline{-56} \phantom{00} \\
 50 \phantom{00} \\
 \underline{-49} \phantom{00} \\
 10 \phantom{00} \\
 \underline{-7} \phantom{00} \\
 30
 \end{array}$$

Mean is about 318.71

The median is 294

There is no mode

4. 4, 3, 5, 6, 2, 5

Ordered: 2, 3, 4, 5, 5, 6

Sum :  $2 + 3 + 4 + 5 + 5 + 6 = 25$

Mean =  $25 \div 6$

$$\begin{array}{r}
 4.166 \\
 6 \overline{) 25.000} \\
 \underline{-24} \phantom{00} \\
 10 \phantom{00} \\
 \underline{-6} \phantom{00} \\
 40 \phantom{00} \\
 \underline{-36} \phantom{00} \\
 40
 \end{array}$$

Mean is about 4.17

Median is  $\frac{4+5}{2} = \frac{9}{2} = 4.5$

Mode is 5

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5. 43, 64, 23, 76, 23, 54, 43

Ordered: 23, 23, 43, 43, 54, 64, 76

Sum :

$$\begin{array}{r}
 2\ 3 \\
 2\ 3 \\
 4\ 3 \\
 4\ 3 \\
 5\ 4 \\
 6\ 4 \\
 +\ 7\ 6 \\
 \hline
 3\ 2\ 6
 \end{array}$$

Mean =  $326 \div 7$

$$\begin{array}{r}
 46.571 \\
 7 \overline{) 326.000} \\
 \underline{-28} \\
 46 \\
 \underline{-42} \\
 40 \\
 \underline{-35} \\
 50 \\
 \underline{-49} \\
 10
 \end{array}$$

Mean is about 46.57

The median is 43

The modes are 23 and 43

6. 953, 343, 605, 929, 940, 940, 792

Ordered: 343, 605, 792, 929, 940, 940, 953

Sum :

$$\begin{array}{r}
 3\ 4\ 3 \\
 6\ 0\ 5 \\
 7\ 9\ 2 \\
 9\ 2\ 9 \\
 9\ 4\ 0 \\
 9\ 4\ 0 \\
 +\ 9\ 5\ 3 \\
 \hline
 5\ 5\ 0\ 2
 \end{array}$$

Mean =  $5,502 \div 7$

$$\begin{array}{r}
 786 \\
 7 \overline{) 5502} \\
 \underline{-49} \\
 60 \\
 \underline{-56} \\
 42
 \end{array}$$

Mean is 786

The median is 929

The mode is 940