

## Mean, Mode, Median, Range and Probability Worksheet.

1. Find the mean of the following sets of data.

a) 3, 4, 7, 8, 8, 13, 17, 20

b) 11, 12, 14, 17, 17, 19

c) 0.1, 0.2, 0.4, 0.5, 0.7, 0.7, 0.9

d) 21, 23, 23, 26, 36, 81

e) 12, 17, 9, 16, 22, 8, 17, 11, 12, 3

2. Find the median of the following sets of data.

a) 5, 8, 4, 2, 1, 6, 3, 9, 7

b) 11, 21, 14, 16, 27, 9, 15

c) 1.6, 2.2, 1.3, 2.4, 1, 1.7, 2.2

d) 142, 153, 96, 204, 175, 150, 188

e) 4, 11, 7, 8, 12, 7

f) 4, 6, 7, 15, 3, 17, 12, 8, 10, 9

g) 11, 7, 8, 6, 4, 7, 3, 10

3. Find the mode of each set of data.

a) 11, 22, 13, 54, 11, 13, 31, 10, 13

b) 1.7, 2.1, 2.3, 1.4, 2.1, 6.0, 2.8

c) 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1

d) 131, 210, 113, 124, 21, 120, 124

4. Find the range of each set of data.

a) 5, 8, 4, 2, 1, 6, 3, 9, 7

b) 11, 21, 14, 16, 27, 9, 15

c) 1.6, 2.2, 1.3, 2.4, 1, 1.7, 2.2

d) 142, 153, 96, 204, 175, 150, 188

e) 4, 11, 7, 8, 12, 7

f) 4, 6, 7, 15, 3, 17, 12, 8, 10, 9

g) 11, 7, 8, 6, 4, 7, 3, 10

h) 11, 22, 13, 54, 11, 13, 31, 10, 13

i) 1.7, 2.1, 2.3, 1.4, 2.1, 6.0, 2.8

j) 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1

k) 131, 210, 113, 124, 21, 120, 124

5. Find the probability in each of these.

a) A bag contains 6 black balls and 12 white balls. If a ball is picked at random what is the probability that it will be black?

b) A bag has 3 red sweets, 6 green sweets and 9 blue sweets. If a sweet is picked at random what is the probability that it will be  
i) Red      ii) Green      iii) Blue      iv) Orange

c) A dice numbered from 1 to 6 is rolled.  
i) What is the probability that it will show a 2?  
ii) What is the probability of it showing a 3  
iii) What is the probability of it showing an odd number?  
iv) What is the probability that it will show the number 8.

**Answers.**

- 1 a) 10  
b) 15  
c) 0.5  
d) 35  
e) 12.7

- 2 a) 5  
b) 15  
c) 1.7  
d) 153  
e) 7.5  
f) 8.5  
g) 7

- 3 a) 13  
b) 2.1  
c) 1  
d) 124

- 4 a) 8  
b) 18  
c) 1.4  
d) 108  
e) 7  
f) 14  
g) 8  
h) 43  
i) 4.6  
j) 1  
k) 189

5 a)  $\frac{6}{12} = \frac{1}{2}$

b)

i)  $\frac{3}{18} = \frac{1}{6}$

ii)  $\frac{6}{18} = \frac{1}{3}$

iii)  $\frac{9}{18} = \frac{1}{2}$

iv) 0

- c)
- i)  $\frac{1}{6}$
  - ii)  $\frac{1}{6}$
  - iii)  $\frac{3}{6} = \frac{1}{2}$
  - iv) 0