9.2

Mean

(& Division Review)

Example 1

$$3\overline{)6.9}$$

Example 2

$$2.46 \div 0.3$$

Example 3

$$28 \div 0.02$$

Example 4

$$10.4 \div 0.08$$

MEAN

- (Average) – The sum of numbers divided by the amount of numbers

$$\text{Mean} = \frac{\qquad\qquad\qquad\qquad}{\qquad\qquad\qquad\qquad}$$

1) Find the average of the following numbers:

20, 32, 35, 48, and 55

IF YOU GET A DECIMAL ANSWER, ROUND TO THE NEAREST TENTH PLACE

Example 2 – Finding the Mean

Text Messages Sent
Mark: 120
Laura: 95
Stacy: 101
Josh: 125
Kevin: 82
Maria: 108
Manny: 90

The table shows the number of text messages sent by a group of friends over 1 week. What is the mean number of messages sent?

Ⓐ 100 Ⓑ 102 Ⓒ 103 Ⓓ 104

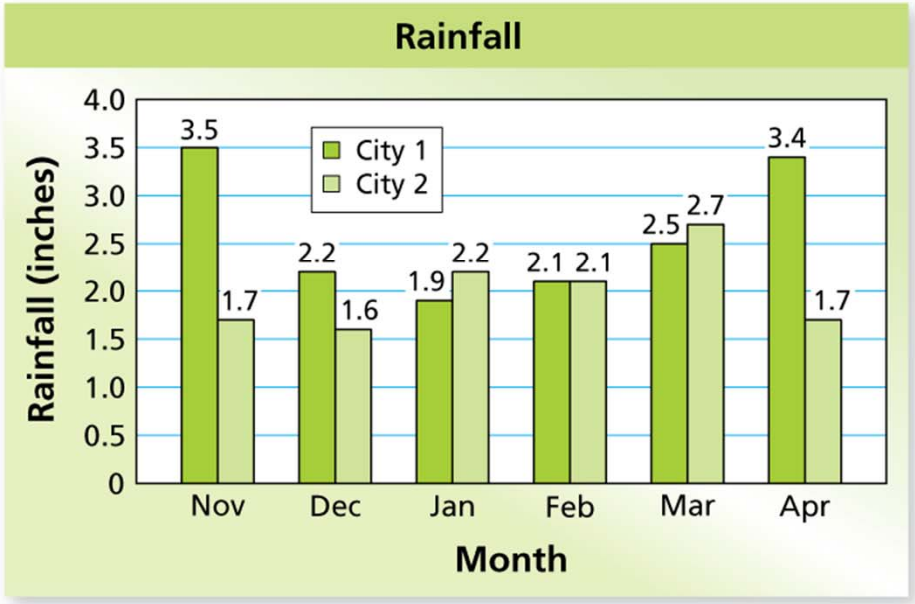
Practice

Find the mean of the data.

30, 81, 50, 24, 15, 64

Example 3 – Comparing Means

The double bar graph shows the monthly rainfall amounts for two cities over a six-month period. Compare the mean monthly rainfalls.



Practice

Compare the mean monthly rainfall (in inches) for the two cities.

City A: 2.5, 4.3, 4.8, 2.7, 1.2

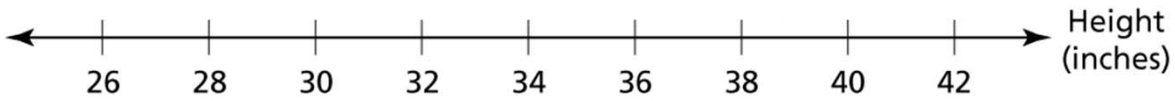
City B: 1.7, 4.1, 5.5, 3.2, 0.5

Example 4 – Outliers and the Mean

Shetland Pony Heights (inches)				
40	37	39	40	42
38	38	37	28	40

The table shows the heights of several Shetland ponies.

a. Identify the outlier.



b. Find the mean with and without the outlier.

Example 4 – Outliers and the Mean

Shetland Pony Heights (inches)				
40	37	39	40	42
38	38	37	28	40

c. Describe how the outlier affects the mean.

With the outlier, the mean is less than all but three of the heights. Without the outlier, the mean better represents the heights.

Practice

The table shows the weights of several kittens.

Kitten Weights (pounds)				
4.5	5.7	4.4	4.45	5.5
5.6	4.7	4.9	7.25	5

a. Identify the outlier.

b. Find the mean with and without the outlier.

c. Describe how the outlier affects the mean.