REVIEW: Mean, Median, and Mode

Name _____

Key Concept and Vocabulary

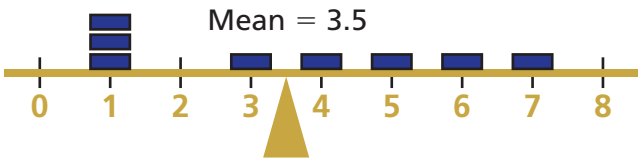
mode = 1 | median = 3.5

1, 1, 1, 3, 4, 5, 6, 7

$$\text{Mean} = \frac{1+1+1+3+4+5+6+7}{8}$$

$$= 3.5$$

Visual Model



The scale balances at the mean.

Skill Example

1. mode = 1 | median = 4

1, 1, 1, 3, 4, 5, 6, 7, 17 (Outlier)

$$\text{Mean} = \frac{1+1+1+3+4+5+6+7+17}{9}$$

$$= 5$$

Application Example

2. What is the mean weight of the bowling balls?

$13 + 12 + 9 + 10 + 13 + 9 = 66$

$$\text{Mean} = \frac{66}{6} = 11$$

∴ The mean weight is 11 pounds.

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Check your answers at BigIdeasMath.com.

Find the mean, median, and mode of the data.

3. 2, 6, 9, 10, 3, 4, 6, 12, 4, 13

Mean = 6.9, Median = 6, Mode = 4 and 6

4. 30, 48, 32, 43, 45, 32

Mean = $38\frac{1}{3}$, Median = 37.5, Mode = 32

5. 18, 12, 25, 18, 17, 19, 29, 20, 13, 18

Mean = 18.9, Median = 18, Mode = 18

6. 6.8, 6.2, 6.3, 6.8, 5.9, 6.0, 6.1, 5.9

Mean = 6.25, Median = 6.15, Mode = 5.9 and 6.8

7. −4, 5, 3, −2, 1, 0, −2

Mean = $7\frac{1}{7}$, Median = 0, Mode = −2

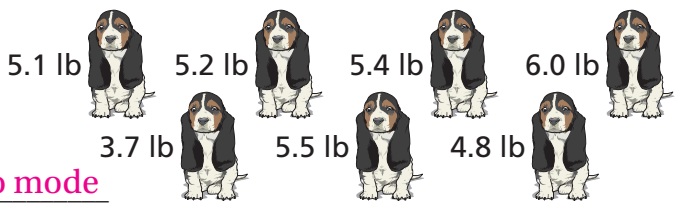
8. 2, 5, 5, 0, 12, 5, 7, 8, 12, 9

Mean = 6.5, Median = 6, Mode = 5

9. SALARIES The weekly salaries of six employees at a fast-food restaurant are $140, $220, $90, $180, $140, and $200. Find the mean, median, and mode of these salaries.

Mean = $161.67, Median = $160, Mode = $140

10. PUPPIES A litter of puppies is 8 weeks old. Find the mean, median, and mode of the weights of the puppies.



Mean = 5.1 lb, Median = 5.2 lb, Mode = no mode