

Reteaching 3-3 Mean, Median, and Mode

In 1995, eight states had pupil-teacher ratios that were close to the U.S. average of 17.3. Use the table at the right. Find the **a)** mean, **b)** median, and **c)** mode.

State	Pupils per Teacher
Arkansas	17.1
Illinois	17.1
Indiana	17.5
Louisiana	17.0
Mississippi	17.5
New Mexico	17.0
Ohio	17.1
Pennsylvania	17.0

a. Mean: $\frac{\text{sum of data items}}{\text{number of data items}}$
 $= \frac{17.1 + 17.1 + 17.5 + 17.0 + 17.5 + 17.0 + 17.1 + 17.0}{8}$
 $= \frac{137.3}{8} = 17.1625$

Rounded to the nearest tenth, the mean is 17.2.

b. Median: Write the data in order.
 17.0, 17.0, 17.0, 17.1, 17.1, 17.1, 17.5, 17.5
 $\frac{17.1 + 17.1}{2} = 17.1$ Find the mean of the two middle numbers. The median is 17.1

c. Mode: Find the data item that occurs most often.
 Both 17.0 and 17.1 occur 3 times. The modes are 17.0 and 17.1.

Find the mean, median, and mode. Round to the nearest tenth where necessary.

	mean	median	mode
1. 14.2 14.7 14.3 14.6	_____	_____	_____
2. 8 7 3 5 9 2 4 7	_____	_____	_____
3. 37 42 51 28 36	_____	_____	_____
4. 1.1 1.8 2.6 1.8 1.9 2.6	_____	_____	_____

The world's largest body of freshwater is formed by the Great Lakes of North America. Use the table of depths at the right. Find the following statistics. Round to the nearest tenth where necessary.

Lake	Depth (in ft)
Superior	1,333
Michigan	923
Huron	750
Erie	210
Ontario	802

5. mean: _____
6. median: _____
7. mode: _____

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