## **13.6 EXERCISES**

HOMEWORK KEY

	<b>KILL PRACTICE</b>			
	<b>1. VOCABULARY</b> Copy and complete: The value that occurs most frequently in a data set is called the <u>?</u> of the data.			
<b>EXAMPLE 1</b> on p. 875 for Exs. 3–10	<b>2. WRITING</b> How are measures of central tendency and measures of dispersion used to compare data?			
	<b>MEASURES OF CENTRAL TENDENCY</b> Find the mean, median, and mode(s) of the data.			
	<b>3.</b> 1, 1, 1, 2, 3, 3, 5, 5, 6	<b>4.</b> 9, 10, 12	<b>4.</b> 9, 10, 12, 15, 16	
	<b>5.</b> 13, 16, 19, 20, 22, 25, 30, 31	<b>6.</b> 14, 15,	<b>6.</b> 14, 15, 15, 14, 14, 16, 18, 15	
	7. 5.52, 5.44, 3.60, 5.76, 3.80, 7	<b>8.</b> 300, 32	<b>8.</b> 300, 320, 341, 348, 360, 333	
	9. 👆 TAKS REASONING What is the median of the data set?			
	0.7, 0.3, 0.7, 0.8, 0.9, 0.4, 1.0, 1.6, 1.2			
	<b>(A)</b> 0.7 <b>(B)</b> 0.8	<b>(C)</b> 0.9	<b>D</b> 1.0	
	<b>10. ERROR ANALYSIS</b> <i>Describe</i> and correct the error in finding the median of the data set.		746246883 🗸	
			The median is 4.	
<b>EXAMPLE 2</b> on p. 876 for Exs. 11–16	<b>MEASURES OF DISPERSION</b> Find the range and mean absolute deviation of the data. Round to the nearest hundredth, if necessary.			
	11. 30, 35, 20, 85, 60	<b>12.</b> 111, 13	<b>12.</b> 111, 135, 115, 120, 145, 130	
	<b>13.</b> 30, 45, 52, 48, 100, 45, 42, 45	5 <b>14.</b> 505, 51	<b>14.</b> 505, 510, 480, 550, 495, 500	
	<b>15.</b> 1.25, 1.50, 1.70, 0.85, 1.00, 1	.25 <b>16.</b> 38.2, 80	<b>16.</b> 38.2, 80.1, 2.6, 84.2, 2.5, 5.5	
	<b>17. WRITING</b> <i>Explain</i> why the mean absolute deviation of a data set is generally a better measure of dispersion than the range.			
	<b>18. CHALLENGE</b> Write a data set that has a mean of 10, a median of 10, and modes of 5 and 8.			
P	ROBLEM SOLVING			
<b>EXAMPLE 1</b> on p. 875	<b>19. TAKS REASONING</b> The weights (in pounds) of ten pumpkins are 22, 21, 24, 24, 5, 24, 5, 23, 24, and 24.			

- a. What is the range of the pumpkin weights?
- **b.** Find the mean, median, and mode(s) of the pumpkin weights.
- c. Which measure of central tendency best represents the data? *Explain*.

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