11.1 EXERCISES

HOMEWORK KEY

 = WORKED-OUT SOLUTIONS on p. WS1 for Exs. 5, 15, and 29
 = TAKS PRACTICE AND REASONING Exs. 7, 8, 23, 24, 30, 32, 33, and 34

Skill Practice

	1. VOCABULARY Copy and complete: Measures of <u>?</u> represent the center or middle of a data set. Measures of <u>?</u> tell you how spread out the values in a data set are.						
	2. WRITING Define the	mean, median, and	l moc	le of a set of <i>n</i> nu	mbe	rs.	
EXAMPLE 1 on p. 744	MEASURES OF CENTRAL TENDENCY In Exercises 3–6, find the mean, median, and mode of the data set.						
for Exs. 3–10	3. The numbers of mice born in nine different litters: 5, 7, 6, 3, 8, 6, 4, 5, 4						
	4. A student's quiz scores for the first semester of an algebra class: 18, 20, 14, 15, 20, 17, 16						
	5. The heights (in inches) of the members of a men's college basketball team: 69, 70, 75, 84, 73, 78, 74, 73, 78, 71						
	6. The waiting times (in minutes) of several people at a doctor's office: 24, 19, 30, 39, 22, 19, 26, 35, 42, 15, 25						
	7. 👆 TAKS REASONING What is the median of 0.5, 0.6, 0.7, 1.2, 1.5, and 1.5?						
	(A) 0.7 (B)	0.95	C	1 (D	1.5	
	8. 👆 TAKS REASONING What is the mean of 2, 2, 6, 7, 9, and 10?						
	A 2 B) 6	C	6.5	D	7.2	
	ERROR ANALYSIS <i>Describe</i> and correct the error in finding the measure of central tendency.						
		and correct the erro	or in f	finding the meas	ure o	of	
		a set	or in f	Finding the meas The only mode of below is 12 beca most frequently	of the use 1	e data se	
	9. The median of the data below is 5 because 5 is	a set		The only mode of below is 12 beca	of the use 1 y.	e data so 12 occurs	
EXAMPLES 2 and 3	9. The median of the data below is 5 because 5 is middle number.	a set the	10.	The only mode of below is 12 beca most frequently 12, 9, 24, 12, 18,	of the use 1 y. 9, 12	e data so 12 occurs	
2 and 3 on p. 745	 central tendency. 9. The median of the data below is 5 because 5 is middle number. 12, 8, 9, 5, 10, 10, 3 	a set the	10. stanc	The only mode of below is 12 beca most frequently 12, 9, 24, 12, 18,	of the use 1 y. 9, 12 the	e data so 12 occurs 2, 11, 9	
2 and 3	 central tendency. 9. The median of the data below is 5 because 5 is middle number. 12, 8, 9, 5, 10, 10, 3 MEASURES OF DISPERSION F data set. 11. 7, 4, 6, 8, 5, 9, 5, 7 13. 3.1, 2.7, 6.0, 5.6, 2.3, 2.0, 	a set the Find the range and s	10. stanc 12.	The only mode of below is 12 beca most frequently 12, 9, 24, 12, 18, dard deviation of	of the use 1 y. 9, 12 T the 6, 8,	e data so 12 occurs 2, 11, 9 9	
2 and 3 on p. 745	 central tendency. 9. The median of the data below is 5 because 5 is middle number. 12, 8, 9, 5, 10, 10, 3 MEASURES OF DISPERSION Hedata set. 11. 7, 4, 6, 8, 5, 9, 5, 7 	a set the Find the range and s	10. stanc 12. 14.	The only mode of below is 12 beca most frequently 12, 9, 24, 12, 18, lard deviation of 10, 12, 7, 11, 20, 7,	of the use 1 y. 9, 12 the 6, 8, 47, 50	e data so 12 occurs 2, 11, 9 9 9, 44, 48,	42
2 and 3 on p. 745	 central tendency. 9. The median of the data below is 5 because 5 is middle number. 12, 8, 9, 5, 10, 10, 3 MEASURES OF DISPERSION F data set. 11. 7, 4, 6, 8, 5, 9, 5, 7 13. 3.1, 2.7, 6.0, 5.6, 2.3, 2.0, 	a set the Find the range and s 1.3 40, 158, 154 htify the outlier in t tandard deviation	10. stand 12. 14. 16.	The only mode of below is 12 beca most frequently 12, 9, 24, 12, 18, lard deviation of 10, 12, 7, 11, 20, 7, 44, 47, 45, 48, 45, 4 301, 312, 308, 320 ata set. Then find	of the use 1 9, 12 6, 8, 47, 50 , 318, 1 the	e data so 12 occurs 2, 11, 9 9 0, 44, 48, 315, 323 mean,	42
2 and 3 on p. 745 for Exs. 11–16 EXAMPLE 4 on p. 746	 central tendency. 9. The median of the data below is 5 because 5 is middle number. 12, 8, 9, 5, 10, 10, 3 MEASURES OF DISPERSION He data set. 11. 7, 4, 6, 8, 5, 9, 5, 7 13. 3.1, 2.7, 6.0, 5.6, 2.3, 2.0, 15. 135, 142, 148, 136, 152, 14 IDENTIFYING OUTLIERS Idem median, mode, range, and set and s	a set the Find the range and s 1.3 40, 158, 154 htify the outlier in t tandard deviation	10. stand 12. 14. 16. the di of the	The only mode of below is 12 beca most frequently 12, 9, 24, 12, 18, lard deviation of 10, 12, 7, 11, 20, 7, 44, 47, 45, 48, 45, 4 301, 312, 308, 320 ata set. Then find	of the use 1 y. 9, 12 6, 8, 47, 50 , 318, 1 the he of	e data so 12 occurs 2, 11, 9 9 0, 44, 48, 315, 325 mean, utlier is	42
2 and 3 on p. 745 for Exs. 11–16 EXAMPLE 4 on p. 746	 central tendency. 9. The median of the data below is 5 because 5 is middle number. 12, 8, 9, 5, 10, 10, 3 MEASURES OF DISPERSION Hedata set. 11. 7, 4, 6, 8, 5, 9, 5, 7 13. 3.1, 2.7, 6.0, 5.6, 2.3, 2.0, (15) 135, 142, 148, 136, 152, 14 IDENTIFYING OUTLIERS Idem median, mode, range, and sincluded and when it is not. 	a set the Find the range and s 1.3 40, 158, 154 atify the outlier in t tandard deviation of	10. stand 12. 14. 16. the d of the 18.	The only mode of below is 12 beca most frequently 12, 9, 24, 12, 18, lard deviation of 10, 12, 7, 11, 20, 7, 44, 47, 45, 48, 45, 4 301, 312, 308, 320 ata set. Then find e data set when th	of the use 1 y. 9, 12 f the 6, 8, 47, 50 , 318, 1 the he or 3, 83	e data so 12 occurs 2, 11, 9 9 0, 44, 48, 315, 323 mean, utlier is , 91	42