Name	Date	Class	

Challenge 6-3 Outer Space Outlier

You have been chosen to train as an astronaut! The statisticians at NASA are not happy, because you are a major outlier for their data. Use the information below to find how you will affect their astronaut data.



Youngest Astronauts

In 1970, Russian astronaut Gherman S. Titov became the youngest person to travel into space. He was 25 years old at liftoff. The ages of some of the other youngest astronauts of all time were 26, 29, 28, 27, 26, and 28.

Data Without Your Age:	Data With Your Age:	
Mean age:	Mean age:	
Median age:	Median age:	
Mode age:	Mode age:	

Oldest Astronauts

In 1998, American astronaut John H. Glenn became the oldest person to travel into space. He was 77 years old at liftoff. The ages of some of the other oldest astronauts of all time were 54, 59, 61, 56, 58, and 55.

 Data Without Your Age:
 Data With Your Age:

Data without four Age:	Data with four Age:	
Mean age:	Mean age:	
Median age:	Median age:	
Mode age:	Mode age:	

Outer Space Outlier		Additional Data and Outliers		
You have been chosen to train as an ast	ronaut! The	Use the table to answer the questions.		
statisticians at NASA are not happy, bec	ause you are a major	1. Find the mean, median, and mode of	Successful Film	is in the U.S.
will affect their astronaut data. Some an	swers depend on	the earnings data.		U.S. Earnings
student ages. Sample answers are give	ven for age 12.	mean: \$341 million; median:		for first release
		\$330 million: mode: none	Film	(million \$)
		2 Titania correct more menov in the	E.T. the Extra-	
		2. Intanic earlied more money in the United States than any other film—a	Terrestrial	400
		total of \$600 million! Add this figure to	Forrest Gump	330
		the data and find the mean, median,	Independence Day	305
		mean to the nearest whole million	Jurassic Park	357
			The Lion King	313
		mean: \$384 million; median:		
E		\$343.5 million; mode: none		
		Circle the letter of the correct answer		
Youngest	Astronauts	O la Ocacida accesta wetch TV co	4. De entre in the distant	
		average of 74 minutes each day. In	 People in the Unite more television that 	an in any other
into space. He was 25 years old at liftoff.	The ages of some of the other youngest	Germany, people watch an average	country. Americans	s watch an average
astronauts of all time were	26, 29, 28, 27, 26, and 28.	of 68 minutes a day. In France it is	of 118 minutes a d	ay! Add this
Data Without Your Age:	Data With Your Age:	67 minutes a day, in Spain it is 91 minutes a day, and in Ireland it is 74	number to the data	a and find the
	Data Mar Tota Age.	minutes a day. Find the mean,	(F) mean: 82 min : 1	median: 74 min ·
wean age: ∠ /	wean age: 20.120	median, and mode of the data.	mode: 74 min.	
Median age: 27	Median age: 26.5	A mean: 74 min.; median: 74 min.;	G mean: 82 min.; I	median: 74 min.;
Mode age: 26 and 28	Mode age: 26 and 28	mode: /4 min. B mean: 74 min : modian: 74.9 min :	mode: 118 min.	
<u>ا</u> ــــــــــــــــــــــــــــــــــــ	L]	mode: 74 min.; median: 74.8 min.;	H mean: 82 min.; i mode: 74 min	median: 91 min.;
Oldest A	stronauts	C mean: 74.8 min.; median: 74 min.;	J mean: 74.8 min	.: median: 82 min ·
In 1998, American astronaut John H. Gle	nn became the oldest person to travel into	mode: 24 min.	mode: 74 min.	.,
space. He was 77 years old at liftoff. The a	ages of some of the other oldest astronauts	D mean: 74.8 min.; median: 74 min.;	6 In Exercise 4 which	
of all time were 54, 5	9, 61, 56, 58, and 55.	mode: 74 min.	best describe the c	data?
Data Without Your Age:	Data With Your Age:	5. In Exercise 2, which data	F mean and media	an
Mean age: 60	Mean age: 54	measurement changed the least with	G range and mear	n
Median age: 58	Median age: 57	A the range C the median	(H) median and mo	de
Mede errei no mode	Mada area no mode	B the mean D the upper extreme	J range and mode	Э
Mode age. no mode	Mode age. no mode			
Copyright © by Holt, Rinehart and Winston.	3 Holt Mathematics	Copyright © by Holt, Rinehart and Winston. 2	24	Holt Mathematics
All rights reserved.		All rights reserved.		non manomanoo
— Poading Stratogies		Duzzlae Twietare & T	036086	
		LESSON Puzzles, Twisters & T	easers	
6-3 Use Graphic Aids		LESSON Puzzles, Twisters & T 6-3 A-Maze-ing Data!	easers	
LESSON Reading Strategies 6-3 Use Graphic Aids Tim put his bowling scores on a number line	Э.	LESSON Puzzles, Twisters & T 6-3 A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze	easers	
Tim put his bowling scores on a number line 1530 Use Graphic Aids 1590 Tim put his bowling scores on a number line 1590 98 10511	э. О	LESSON Puzzles, Twisters & T 6-3 A-Maze-ing Data! First, answer each question. Then use yr navigate through the maze. 1 Consider the data set 2 4 6 8 8 8 10	bur answers to	
Itessor Reading Strategies G-3 Use Graphic Aids Tim put his bowling scores on a number line 98 89 98 10511 1 1 1	9. O	LESSON Puzzles, Twisters & T 6-3 <i>A-Maze-ing Data!</i> First, answer each question. Then use you navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the vali	Ceasers Dur answers to 0, 12, 14, 16. What ues 3 and 9?	
Tim put his bowling scores on a number line 98 98 98 10511 100 11 100 100 100 100 10	9. 0 0 120 130	LESSON Puzzles, Twisters & T 6.3 <i>A-Maze-ing Data!</i> First, answer each question. Then use yo navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val The mean goes down by 0.5 (5 te	Contemporal contem	
Tim put his bowling scores on a number line 98 98 10511 100 80 90 100 11	9. 0 120 130	 First, answer each question. Then use you navigate through the maze. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value. The mean goes down by <u>0.5</u>. (5 the 2 What is the mean if you add 2 and 18 the mean if you add 18 the mean you ad	easers our answers to 0, 12, 14, 16. What ues 3 and 9? nths) 0 the original	
Tim put his bowling scores on a number line	a. 0 <u>1 1 1 ↓</u> 0 120 130 cores are close together	LESSON Puzzles, Twisters & T 6.3 <i>A-Maze-ing Data!</i> First, answer each question. Then use yu navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the vali The mean goes down by <u>0.5</u> . (5 te 2. What is the mean if you add 2 and 18 te data set? <u>9</u>	Context answers to D, 12, 14, 16. What ues 3 and 9? nths) b the original	
Tim put his bowling scores on a number line 39 98 99 98 99 98 10511 10 70 80 90 100 11 The number line lets you see whether the s or spread apart.	e. 0 120 130 cores are close together	First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 9, 10 happens to the mean if you add the value The mean goes down by <u>0.5</u> . (5 the 2. What is the mean if you add 2 and 18 to data set? <u>9</u> 3. As CEO of a company you notice that y	bur answers to), 12, 14, 16. What ues 3 and 9? nths) to the original our five executives have	
Tim put his bowling scores on a number line 98 98 98 98 10511 10 70 80 90 100 11 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sco	e. 0 120 130 cores are close together pres:	Tusser Puzzles, Twisters & T 1 6-3 A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value. The mean goes down by <u>0.5</u> . (5 te 2. What is the mean if you add 2 and 18 to data set? <u>9</u> 3. As CEO of a company you notice that ye the following salaries: \$65,000, \$70,00	bur answers to bur answers to), 12, 14, 16, What ues 3 and 9? nths) b the original our five executives have 0, \$80,000, \$80,000, and	
Tim put his bowling scores on a number line 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e. 0 120 130 cores are close together pres: Range—21 6 20 This combod is a	 Fuzzles, Twisters & T A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val. The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 te data set? <u>9</u> As CEO of a company you notice that y the following salaries: \$65,000, \$70,000 \$72,000. By how many thousance did H 	bur answers to bur answers to bur answers to but a stand 9? nths) but he original rour five executives have build be and will pay her build build be and will pay her build build bu	
Tim put his bowling scores on a number line 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	e. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line	 First, answer each question. Then use yr navigate through the maze. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val. The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 tr data set? <u>9</u> As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did th median change? <u>3</u> 	Context and the second	
The number line lets you see whether the sor spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score.	e. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line	 LESSON Puzzles, Twisters & T G-3 A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val. The mean goes down by <u>0.5</u>. (5 te 2. What is the mean if you add 2 and 18 the data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,000 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did the median change? <u>3</u> 4. Consider the data set 6. 8. 10. 12. 12. 11 	Contemporal and the second sec	
The number line lets you see whether the so rspread apart. Recall the measures that describe Tim's sc Mean-100 Median-98 Mode-98 Tim bowled another game and got a score includes Tim's new score. 0utlier 70 93 98 10	e. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110	 LESSON Puzzles, Twisters & T G-3 A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val The mean goes down by 0.5 (5 te 2. What is the mean if you add 2 and 18 te data set? 9 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did the median change? 3 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the valitized to the mean if you	easers bur answers to 0, 12, 14, 16. What ues 3 and 9? nths) b the original our five executives have 0, \$80,000, \$80,000, and e and will pay her 1e 12, 14, 16, 18, 20. What	
Tim put his bowling scores on a number line 98 99 98 99 98 99 98 99 10511 10 70 80 90 100 11 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 0 0 0 9 9 9 9 9 9 9 9 9 9 9 9 9	e. 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110	 LESSON Puzzles, Twisters & T G-3 A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val The mean goes down by 0.5. (5 te 2. What is the mean if you add 2 and 18 te data set? 9 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did the median change? 3 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the value mean goes up by 1.6. 	A server	
The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score.	e. 0 120 $130cores are close togetherores:Range—21of 70. This number line5110110$ 120 130	 Puzzles, Twisters & T Puzzles, Twisters & T A-Maze-ing Data! First, answer each question. Then use yr navigate through the maze. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 tr data set? <u>9</u> As CEO of a company you notice that y the following salaries: \$65,000, \$70,000 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did th median change? <u>3</u> Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add he val mean goes up by <u>1.6</u>. Consider the data set: 6, 8, 12, 13 and means will observe it we will observe it we will be act 4 set 5 set 4 set 5 set	Contemporal and the second sec	
The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's so Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score.	b. 0 120 $130cores are close togetherores:Range—21of 70. This number line5110110$ 120 $130the it is set anart from the$	 Puzzles, Twisters & T Puzzles, Twisters & T First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the valit The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 to data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did th median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the valit mean goes up by <u>1.6</u>. 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right 	Contemporal and the set of the se	paces left
The score of 70 is called an outlier, because other scores.	9. 0 120 130 cores are close together pres: Range—21 of 70. This number line 5110 110 120 130 se it is set apart from the	 Fussion Puzzles, Twisters & T G-3 A-Maze-ing Data! First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value. The mean goes down by <u>0.5</u>. (5 te 2. What is the mean if you add 2 and 18 to data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did the median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the value mean goes up by <u>1.6</u>. 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right 	bur answers to bur answers to bur answers to (), 12, 14, 16, What ues 3 and 9? nths) b the original bour five executives have (), \$80,000, \$80,000, and e and will pay her ne (2, 14, 16, 18, 20. What ues 22 and 22.7? The 16. Which statistical 4 to the data set? If Median move 4 sp If none move 3 space	paces left ces right
The number line lets you see whether the sor spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 0 utilier 70 93 98 100 10 The score of 70 is called an outlier, becaus other scores. Answer the following questions	a. 0 120 130 cores are close together bres: Range—21 of 70. This number line 5110 110 120 130 se it is set apart from the	 First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the valit The mean goes down by <u>0.5</u>. (5 te 2. What is the mean if you add 2 and 18 th data set? <u>9</u>. 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did th median change? <u>3</u>. 4. Consider the data set 6, 8, 10, 12, 12, 11 happens to the mean if you add the valit median change? <u>3</u>. 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right [If Mode move 5 spaces down] Now you must find your way through this m 	bur answers to bur answers to bur answers to (1, 12, 14, 16, What ues 3 and 9? nths) b the original our five executives have (0, \$80,000, \$80,000, and e and will pay her ne (2, 14, 16, 18, 20. What ues 22 and 22.7? The (16. Which statistical 4 to the data set? If Median move 4 sp If none move 3 space aze to increase the	paces left
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number lin 89 98 100 100 11 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sco Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. outlier 70 70 80 90 100 The score of 70 is called an outlier, becaus other scores. Answer the following questions. 1	e. 0 120 $130cores are close togetherores:Range—21of 70. This number line10$ 120 $130se it is set apart from thethe outling in these$	 First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 11 happens to the mean if you add the val. The mean goes down by <u>0.5</u>. (5 te 2. What is the mean if you add 2 and 18 te data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did th median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 11 happens to the mean if you add the valimean goes up by <u>1.6</u>. 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right [If Mode move 5 spaces down] Now you must find your way through this m mean of your grades. 	Contemporal and the second sec	paces left ces right
The number line lets you see whether the sor spread apart. Recall the measures that describe Tim's soc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 0 0 0 0 0 0 0 0 0 0 0 0 0	e. 0 120 130 cores are close together ores: Range—21 of 70. This number line 110 120 130 we it is set apart from the e the outlier in these	 Puzzles, Twisters & T Casser Puzzles, Twisters & T First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val. The mean goes down by <u>0.5</u>. (5 te 2. What is the mean if you add 2 and 18 tr data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did th median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the valimean goes up by <u>1.6</u>. 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right (f Mode move 5 spaces down) Now you must find your way through this m mean of your grades. Go to start and move down the amount of a 	Contemporal and the set of the se	paces left ces right
The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's soc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. Outlier 70 93 98 100 The score of 70 is called an outlier , becaus other scores. Answer the following questions. 1. How does the number line help you see scores?	e. 0 120 $130cores are close togetherores:Range—21of 70. This number line5110110$ 120 $130se it is set apart from thee the outlier in these70 is set apart from the other second$	 Puzzles, Twisters & T Casser Puzzles, Twisters & T First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val. The mean goes down by <u>0.5</u>. (5 te 2. What is the mean if you add 2 and 18 tr data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did the median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the vali mean goes up by <u>1.6</u>. 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this m mean of your grades. Go to start and move down the amount of a Move right the amount of answer #2. 	A space of the statistical to the data set? 16. Which statistical to the data set? 17. Median move 4 space of the space of the statistical to the data set? 16. Which statistical to the data set? 17. Median move 4 space of the space of	paces left pes right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 10511 70 80 90 100 111 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 0utlier 70 93 98 10 70 80 90 100 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that	a. 0 120 $130cores are close togetherores:Range—21of 70. This number line5110110$ 120 $130se it is set apart from thethe outlier in these70$ is set apart from the other scores.	 Puzzles, Twisters & T Puzzles, Twisters & T First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value the mean if you add the value the total set 2, 9. As CEO of a company you notice that y the following salaries: \$65,000, \$70,000 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did the median change? Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add 8 and 1 If Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this mean of your grades. Go to start and move down the amount of answer #3. 	Approximate the second	paces left ces right
Reading Strategies Iterson Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 98 10511 70 80 90 100 The number line lets you see whether the sor spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 93 98 100 The score of 70 is called an outlier, becaus other scores. 90 100 The score of 70 is called an outlier, becaus other scores? Possible answer: You can see that Will the mean increase or decrease whickded? Will the mean increase or decrease whickded?	e. 0 120 $130cores are close togetherores:Range—21of 70. This number line5110110$ 120 $130the it is set apart from thee the outlier in these70 is set apart from the other scores.en the score of 70 is$	 Puzzles, Twisters & T Puzzles, Twisters & T First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 to data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did the median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add 8 and 1 If Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this mean of your grades. Go to start and move down the amount of a Move right the amount of answer #3. Move right the amount of answer #4 rounded 	A series to bur answers to bur answers to cour answers to cour answers to cour answers to cour solution of the original cour five executives have cour five executives have fi Median move 4 sg if none move 3 space aze to increase the course of the mean executives have and to the nearest	paces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number lin 89 98 100 100 110 100 111 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 0utlier 70 101 93 The score of 70 is called an outlier, becaus other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease when included?	a. 0 120 $130cores are close togetherbres:Range—21of 70. This number line5110110$ 120 $130be it is set apart from thee the outlier in these70 is set apart from the other scores.en the score of 70 is$	 Puzzles, Twisters & T Puzzles, Twisters & T First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 to data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did the median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the value and neasure will change if you add 8 and 1 If Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this m mean of your grades. Go to start and move down the amount of answer #3. Move right the amount of answer #4 rounde whole number. 	A server	paces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 10511 70 80 90 100 11 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sco Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 0utlier 70 93 98 10 70 80 90 100 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease whi include? decrease	a. 0 120 $130cores are close togetherores:Range—21of 70. This number line5110110$ 120 $130se it is set apart from thethe outlier in these70 is set apart from the other scores.an the score of 70 is$	 Puzzles, Twisters & T Puzzles, Twisters & T A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the valit The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 th data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did th median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 11 happens to the mean if you add the valit median change? <u>3</u> Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this m mean of your grades. Go to start and move down the amount of a Move right the amount of answer #3. Move right the amount of answer #4 rounde whole number. Follow the directions for the answer you seled. 	bur answers to bur answers to 0, 12, 14, 16, What ues 3 and 9? nths) b the original our five executives have 0, \$80,000, \$80,000, and e and will pay her ne 12, 14, 16, 18, 20. What ues 22 and 22.7? The 16. Which statistical 4 to the data set? If Median move 4 sp If none move 3 space aze to increase the unswer #1 times 10. add to the nearest ected for #5.	baces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 100 100 11 The number line lets you see whether the sor spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—38 Tim bowled another game and got a score includes Tim's new score. 0utlier 70 80 90 100 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease whincluded? decrease 3. How does the number line help you find	a. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110 10 130 se it is set apart from the the outlier in these 70 is set apart from the other scores. en the score of 70 is 1 the mode?	 Puzzles, Twisters & T Puzzles, Twisters & T A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the valit The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 th data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did th median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 11 happens to the mean if you add the valit median change? <u>3</u> 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this m mean of your grades. Go to start and move down the amount of a Move right the amount of answer #3. Move up the amount of answer #4 rounde whole number. Follow the directions for the answer you sele 	A series to bur answers to 0, 12, 14, 16, What ues 3 and 9? nths) b the original our five executives have 0, \$80,000, \$80,000, and e and will pay her ne 12, 14, 16, 18, 20. What ues 22 and 22.7? The 16. Which statistical 4 to the data set? If Median move 4 sp If none move 3 space aze to increase the answer #1 times 10.	baces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 10511 70 80 90 100 111 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. outlier 70 93 98 10 70 80 90 100 The score of 70 is called an outlier, becaus other scores. Answer the following questions. 1. How does the number line help you see scores? <u>Possible answer: You can see that</u> 2. Will the mean increase or decrease wh included? <u>decrease</u> 3. How does the number line help you finc <u>Possible answer: The numbers are</u>	e. 0 $0 \ 120 \ 130$ cores are close together ores: Range—21 of 70. This number line $5110 \ 120 \ 130$ se it is set apart from the the outlier in these 70 is set apart from the other scores. en the score of 70 is 1 the mode? stacked on top of each other.	 Puzzles, Twisters & T Puzzles, Twisters & T A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val. The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 te data set? <u>9</u> As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did the median change? <u>3</u> Consider the data set 6, 8, 10, 12, 12, 14 happens to the mean if you add the val. mean goes up by <u>1.6</u>. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this mean of your grades. Go to start and move down the amount of a Swer #3. Move right the amount of answer #4. Follow the directions for the answer you sele the set of t	Dur answers to bur answers to (1, 12, 14, 16, What ues 3 and 9? nths) to the original our five executives have (0, \$80,000, \$80,000, and e and will pay her the (1, 14, 16, 18, 20. What ues 22 and 22.7? The (16, Which statistical 4 to the data set? If Median move 4 sp If none move 3 space aze to increase the inswer #1 times 10. ed to the nearest ected for #5.	baces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 10511 70 80 90 100 111 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 0utlier 70 93 98 10 70 80 90 100 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease wh included? decrease 3. How does the number line help you find Possible answer: The numbers are 4. With the addition of the score of 70. will	e. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110 10 120 130 se it is set apart from the the outlier in these 70 is set apart from the other scores. en the score of 70 is 1 the mode? stacked on top of each other. the range increase or decrease?	 Puzzles, Twisters & T Puzzles, Twisters & T First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value the mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 tr data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,000 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did the median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 11 happens to the mean if you add 8 and 1 if Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this m mean of your grades. Go to start and move down the amount of answer #3. Move right the amount of answer #4 rounde whole number. Follow the directions for the answer you sell 	Dur answers to Dur answers to Dur answers to Dur 12, 14, 16. What Uses 3 and 9? Inths) Do the original Our five executives have Dur five executiv	baces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 10511 70 80 90 100 111 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. outlier 70 93 98 10 70 80 90 100 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease whe included? decrease 3. How does the number line help you find Possible answer: The numbers are 4. With the addition of the score of 70, will increase	e. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110 1 120 130 se it is set apart from the e the outlier in these 70 is set apart from the other scores. en the score of 70 is 1 the mode? stacked on top of each other. the range increase or decrease?	 Puzzles, Twisters & T Puzzles, Twisters & T First, answer each question. Then use yr navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value the mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 to data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did the median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add 8 and 1 for Mappens to the mean if you add 8 and 1 for Mappens to the mean if you add 8 and 1 for Mappens to the mean if you add 8 and 1 for Mappens to the amount of a measure will change if you add 8 and 1 for Mae move 1 space right (ff Mode move 5 spaces down) Now you must find your way through this mean of your grades. Go to start and move down the amount of a Swor right the amount of answer #3. Move right the amount of answer #4 rounder whole number. Follow the directions for the answer you selement of the amount of answer #4 rounder whole number. 	A server	paces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 10511 70 80 90 100 111 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sc Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. outlier 70 93 98 100 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease whe included? <u>decrease</u> 3. How does the number line help you find <u>Possible answer: The numbers are</u> 4. With the addition of the score of 70, will <u>increase</u>	e. 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110 10 120 130 se it is set apart from the e the outlier in these 70 is set apart from the other scores. en the score of 70 is 1 the mode? stacked on top of each other. the range increase or decrease?	 Puzzles, Twisters & T Puzzles, Twisters & T First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 to data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did the median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the value median change? <u>3</u> 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Mean move 1 space right (ff Mode move 5 spaces down) Now you must find your way through this mean of your grades. Go to start and move down the amount of a Swer #3. Move right the amount of answer #3. Move right the amount of answer #4 rounder whole number. Follow the directions for the answer you sele 	easers our answers to 0, 12, 14, 16, What ues 3 and 9? nths) o the original our five executives have 0, \$80,000, \$80,000, and e and will pay her ne 12, 14, 16, 18, 20. What ues 22 and 22.7? The 16. Which statistical 4 to the data set? If Median move 4 sp If none move 3 space aze to increase the unswer #1 times 10. ed to the nearest ected for #5.	paces left bes right
Reading Strategies Iterson Reading Strategies Use Graphic Aids Tim put his bowling scores on a number lin 89 98 100 100 110 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sco Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. outlier 70 100 93 101 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease whincluded? decrease 3. How does the number line help you find Possible answer: The numbers are 4. With the addition of the score of 70, will increase 102 Circle the correct answer: Which meas: the added score of 702	2. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110 10 120 130 se it is set apart from the 2 the outlier in these 70 is set apart from the other scores. en the score of 70 is 1 the mode? stacked on top of each other. the range increase or decrease? The is not changed with	 Puzzles, Twisters & T Puzzles, Twisters & T Passa A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the valit The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 th data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did th median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 1 happens to the mean if you add the valit median change? <u>3</u> 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 If Maat move 1 space right (If Mode move 5 spaces down) Now you must find your way through this m mean of your grades. Go to start and move down the amount of a Move right the amount of answer #3. Move right the amount of answer #3. Move right the amount of answer #4 rounde whole number. Follow the directions for the answer you sele 	A server	baces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line 89 98 10511 70 80 90 100 11 The number line lets you see whether the s or spread apart. Recall the measures that describe Tim's sco Mean—100 Median—98 Mode—98 Tim bowled another game and got a score includes Tim's new score. 0utlier 70 93 98 10 70 80 90 100 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease whi included? decrease 3. How does the number line help you fine Possible answer: The numbers are 4. With the addition of the score of 70, will increase 5. Circle the correct answer: Which means the added score of 70? median	e. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110 10 120 130 se it is set apart from the the outlier in these 70 is set apart from the other scores. en the score of 70 is 1 the mode? stacked on top of each other. the range increase or decrease? Ire is not changed with de	 Puzzles, Twisters & T Puzzles, Twisters & T Puzzles, Twisters & T Pirst, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the valit The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 th data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. By how many thousands did th median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 11 happens to the mean if you add the valit median change? <u>3</u> Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 if Mean move 1 space right (If Mode move 5 spaces down) Now you must find your way through this m mean of your grades. Go to start and move down the amount of a Move right the amount of answer #3. Move right the amount of answer #4 rounde whole number. Follow the directions for the answer you sel 	easers our answers to 0, 12, 14, 16, What ues 3 and 9? nths) o the original our five executives have 0, \$80,000, \$80,000, and e and will pay her ne 12, 14, 16, 18, 20. What ues 22 and 22.7? The 16. Which statistical 4 to the data set? If nome move 3 space aze to increase the unswer #1 times 10. add to the nearest ected for #5. If nome for the statistical If up the statistical increase the If nome move 3 space aze to increase the Inswer #1 times 10. add to the nearest ected for #5.	baces left ces right
Reading Strategies Iterson Reading Strategies Use Graphic Aids Tim put his bowling scores on a number lin 100 Strategies 98 10511 100 Median 98 Mode 98 Tim bowled another game and got a score includes Tim's new score. 000 100 The score of 70 is called an outlier, because other scores. Answer the following questions. 1. How does the number line help you see scores? Possible answer: You can see that 2. Will the mean increase or decrease whincluded? decrease 3. How does the number line help you find Possible answer: You can see that 2. With the addition of the score of 70, will increase Mode score of 70 will increase 0 2. Circle the correct answer: Which measu the added score of 70? median	a. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110 10 120 130 se it is set apart from the the outlier in these 70 is set apart from the other scores. an the score of 70 is I the mode? stacked on top of each other. the range increase or decrease? ure is not changed with de	 Puzzles, Twisters & T Puzzles, Twisters & T A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the val. The mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 th data set? <u>9</u> 3. As CEO of a company you notice that y the following salaries: \$65,000, \$70,00 \$72,000. You are hiring a sixth executiv \$78,000. By how many thousands did th median change? <u>3</u> 4. Consider the data set 6, 8, 10, 12, 12, 15 happens to the mean if you add the vali mean goes up by <u>1.6</u>. 5. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 if Mean move 1 space right If Mode move 5 spaces down Now you must find your way through this mean of your grades. Go to start and move down the amount of a Swer #3. Move right the amount of answer #3. Move up the amount of answer #4 rounde whole number. Follow the directions for the answer you seleed the data set is a set is	easers bur answers to 0, 12, 14, 16, What ues 3 and 9? nths) b the original our five executives have 0, \$80,000, \$80,000, and e and will pay her he 12, 14, 16, 18, 20. What ues 22 and 22.7? The 16. Which statistical 4 to the data set? If Median move 4 sp If none move 3 space aze to increase the unswer #1 times 10. ed to the nearest ected for #5. If note move 3 space	baces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line	e. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5110 110 120 130 se it is set apart from the et the outlier in these 70 is set apart from the other scores. en the score of 70 is 11 the mode? stacked on top of each other. the range increase or decrease? ure is not changed with de 5 Holl Mathematics	 Puzzles, Twisters & T Puzzles, Twisters & T A-Maze-ing Data! First, answer each question. Then use yeach question. Then use yeach question. Then use yeach question and the provided of the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value the mean goes down by <u>0.5</u>. (5 te What is the mean if you add 2 and 18 to data set? <u>9</u> As CEO of a company you notice that yeach the following salaries: \$65,000, \$70,000 \$72,000. You are hiring a sixth executive \$78,000. By how many thousands did the median change? <u>3</u> Consider the data set 6, 8, 10, 12, 12, 14 happens to the mean if you add the value mean goes up by <u>1.6</u>. Consider the data set: 6, 8, 12, 13 and measure will change if you add 8 and 1 if Mean move 1 space right (FM de move 5 spaces down) Now you must find your way through this mean of your grades. Go to start and move down the amount of a Move right the amount of answer #3. Move up the amount of answer #4 rounder whole number. Follow the directions for the answer you selection of the directions for the answer you selection of the direction of the move for the answer you selection of the direction of the direction of the move for the answer you selection of the direction of the direction of the direction of the answer will be anount of answer #4. 	easers our answers to 0, 12, 14, 16, What ues 3 and 9? nths) othe original our five executives have 0, \$80,000, \$80,000, and e and will pay her ne 12, 14, 16, 18, 20. What ues 22 and 22.7? The 16. Which statistical 4 to the data set? If Median move 4 spin aze to increase the unswer #1 times 10. ed to the nearest ected for #5. Image: Comparison of the statistical for the tage of the statistical in the statistin the statistical in the statistin the statis	baces left ces right
Reading Strategies Use Graphic Aids Tim put his bowling scores on a number line	e. 0 0 120 130 cores are close together ores: Range—21 of 70. This number line 5 5 10 10 120 130 te it is set apart from the 10 10 120 130 te it is set apart from the other scores. an the score of 70 is 11 14 the mode? 5 5 5 5 5 5 5 6 10 10 10 10 10 10 10 10 10 10	 Puzzles, Twisters & T Puzzles, Twisters & T A-Maze-ing Data! First, answer each question. Then use ye navigate through the maze. 1. Consider the data set 2, 4, 6, 8, 8, 8, 10 happens to the mean if you add the value the mean goes down by <u>0.5</u>. (5 feto the data set? <u>9</u> 3. As CEO of a company you notice that yethe following salaries: \$65,000, \$70,000, Y00 are hiring a sixth executiv \$78,000. By how many thousands did the median change? <u>3</u> 3. Consider the data set 6, 8, 10, 12, 12, 1, 1 happens to the mean if you add the value and goes up by <u>1.6</u>. 6. Consider the data set: 6, 8, 12, 13 and if Mean move 1 space right (If Mode move 5 spaces down) Mow you must find your way through this mean of your grades. Go to start and move down the amount of a Move right the amount of answer #4 rounde. Follow the directions for the answer you set in the direction for t	easers our answers to 0, 12, 14, 16, What ues 3 and 9? nths) othe original our five executives have 0, \$80,000, \$80,000, and e and will pay her ne 12, 14, 16, 18, 20. What ues 22 and 22.7? The 16. Which statistical 4 to the data set? If more move 3 space aze to increase the unswer #1 times 10. ed to the nearest ected for #5. Image: Comparison of the statistical of the the the second of	baces left ces right