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## Lesson 10.3 practice b data distributions answers

1 10-3 Data Distribution Warm-ups The Algebra 1 2 Warm-up lesson to simplify each expression. – 53 3. Use the data below to make a stem and leaf plot. 7, 8, 10, 18, 24, 15, 17, 9, 12, 20, 25, 18, 21, 12 60 49 3 Goals Describe the central trend of the data set. Create sections of boxes and whiskers. 4 Vocabulary means quartile mid-quarter range (IQR) box mode and whisker range release 5 Measure of the central trend describes how clusters of data around the value. The average is the amount of values in the set, divided by the number of values in the set. The median average when the values are numerical, or the average of two averages if there is an even number of values. Mode is the value or values that occur most often. There may be one mode or more than one mode. If the value doesn't occur more often than the other, we say that the dataset doesn't have a mode. 6 The dataset range is the difference between the lowest and greatest values in the set. The range describes the distribution of data. 7 Example 1A: Search for the mid, median, mode, and range of the dataset for the medium, median, mode, and range of the data set. Number of hours spent by students on a research project: 2, 4, 10, 7, 5 Write data in numerical order. means: Add all the values and divide by number of values. median: 2, 4, 5, 7, 10 Median 5. There are an odd number of values. Find the average. Mode: No value occurs more than once. Range: 10 - 2 and 8 8 Sample 1B: Search for medium, median, mode and range of dataset For the medium, median, mode and range of each data set. Weight in pounds six members of the basketball team: 161, 156, 150, 156, 150, 163 Write the data in numerical order. Add all the values and divide by number of values. means: There are an even number of values. Find the average of two averages. median: 150, 150, 156, 156, 161, 163 Median 156. 9 Example 1B Continuation 150, 150, 156, 156, 161, 163 modes: 150 and 156 150 and 156 occur more often than any other value. Range: 163 - 150 and 13 10 Check it out! Example 1A Find the average, average, mode and range of the data set. 8, 8, 14, 6 Write the data in numerical order. means: Add all the values and divide by number of values. median: 6, 8, 8, 14 Median 8. There are an other number of values. Find the average of two averages. 8 happens more than any other value. Mode: 8 range: 14 - 6 and 8 11 Check it out! Example 1b Find the average, average, mode and range of the dataset. 1, 5, 7, 2, 3 Write the data in numerical order. means: Add all the values and divide by number of values. There are an odd number of values. Find the average. median: 1, 2, 3, 5, 7 3. Mode: No value occurs more than once. Range: 7 - 1 and 6 12 Check it out! Example 1c Find the average, average, mode and range of the data set. 12, 18, 18, 17, 12, 18 Write the data in numerical order. Add all the values and divide by number of values. Average: 12, 12, 14, 17, 18, 18 Median There are an even number of values. Find the average of two averages. 13 Check it out! Example 1c Continued Find is average, average, mode and dataset range. 12, 12, 14, 17, 18, 18 mode: 12, 18 12 and 18 occur more often than any other value. range: 18 - 12 and 6 14 Value, which is very different from other values in the set, is called an outlier. Useful 21 Example 3: Sports Application The number of runs scored by a softball team in 19 games is given. Use the data to make the box and mustache plot. 3, 8, 10, 12, 4, 9, 13, 20, 12, 15, 15, 5, 11, 5, 10, 6, 7, 6, 11 Step 1 Order data from least to the greatest. 3, 4, 5, 5, 6, 6, 7, 8, 9, 10, 10, 11, 11, 12, 12, 13, 15, 20 Step 2 Identify the five required values and determine if there are any outliers. 22 Example 3 Continuation IQR: 12 - 6 - 6 1.5 (6) 9 6 - 9 - 3 12 - 9 , 213, 4, 5, 5, 6, 6, 7, 8, 9, 10, 10, 10, 11, 11, 12, 12, 13, 15, 20 No 1 6 No 3 No 12 No 12 10 Minimum 3 Maximum 20 IQR: 12 - 6 x 6 1.5 (6) - 9 6 - 9 - 3 No 21 No. than 21, so there are no emissions. 23 Example 3 Continuation 8 16 24 Average first quartile Third quartile - Minimum top half score is 6 to 12 runs per game. The quarter of points is from 3 to 6. The most points earned by this team is 20. 24 The ejection is presented on a section of the box and a moustache point that is not connected to the mustache box. Writing Math 25 Check It Out! Example 3 Use data to plot boxes and moustaches. 13, 14, 18, 13, 12, 17, 15, 12, 13, 19, 11, 14, 14, 18, 22, 23 Step 1 Order data from the least to the greatest. 11, 12, 12, 13, 13, 13, 14, 14, 15, 17, 18, 18, 19, 22, 23 Step 2 Determine the five required values and determine if there are any emissions. 26 Check it out! Example 3 Continuation 11, 12, 12, 13, 13, 13, 14, 14, 14, 15, 17, 18, 18, 19, 22, 23 No. 1 13 No. 3 18 No 2 14 Minimum 11 Maximum 23 IQR: 18 - 13 - 5 1.5 (5) - 7.5 13 - 7.5 - 5.5 and 25.5 No values less than 5.5 or more, so no emissions. 27 Check it out! Example 3 Continuation 8 16 24 Average first quartile Third quartile - The minimum maximum half of the data is 13 to 18 years. A quarter of the data is between 11 and 13. The highest value is 23. 28 Lesson quiz: Part I 1. Find the middle, average, mode, and range of the data set. Number of hours Gerald mowed lawns in one week: 7, 3, 5, 4, 5 average: 4.8; Median: 5; Mode: 5; Range: 4 29 Lesson quiz: Part II The following list gives Tara time to one way to go to school (for one week) for one week: 12, 23, 13, 14, 13. Use the average, average and mode of your time to answer each question. Average - 15 median mode 13 - 13 2. What is the value of the time that occurred most often? mode, 13 3. What is the best value for Tara's driving time? Explain. Median or mode: 13; 13 has occurred twice, and in most cases are near this value. 30 Lesson quiz: Part III 4. The amount of inches of snow that has fallen during the last 8 winters in one city are given. Use the data to make the box and mustache plot. 25, 17, 14, 27, 20, 11, 29, 32 11 15.5 22.5 28 32 Thank you for participating! 1 10-3 Data Distribution Warm-ups The Algebra 1 2 Warm-up lesson to simplify each expression. – 53 3. 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Example 1c Find the average, average, mode and range of the data set. 12, 18, 14, 17, 12, 18 Write the data in numerical order. Add all the values and divide by number of values. Average: 12, 12, 14, 17, 18, 18 Median There Are number of values. Find the average of two averages. 13 Check it out! Example 1c ContinuedFind average, average, mode and data range 12, 12, 14, 17, 18, 18 mode: 12, 18 12 and 18 occur more often than any other value. range: 18 - 12 and 6 14 Value, which is very different from other values in the set, is called an ejection. In the data below, one value is much larger than the other values. This results in the average being greater than all other data values. In this case, either the median or mode will better describe the data. 15 Example 2: Choosing the measure of the central trend Rico scored 74, 73, 80, 75, 67 and 55 in six history tests. Use the average, average, and his points mode to answer each question. means  $\approx$  average mode and no A. What is the value of the average Rico test? Rico's average score is 70.7. B. What are the best values for Rico's estimates? Median; most of his scores are closer to 73.5 than to 70.6. The average is lower than most of Rico's points because he scored 55 for one test. Since there is no mode, this is not a good description of the data. 16 Check it out! Example 2 Josh scored 75, 75, 81, 84 and 85 in five Tests. Use the average, average, and his points mode to answer each question. Average - average - 81 mode - 75 a. What value describes the score Josh received most often? Josh has a two-point 75, which is the mode. What is the best value for Josh's grades? Explain. The median best describes Josh's grades. The mode is its lowest score, and the average is reduced by two points to 75. 17 Measurements of the central trend describe how data tend to have a single value of the central trend. You may also need to know how the data spreads across multiple values. The quartets divide the data set into four equal parts. Each quartile contains one-quarter of the values in the set. The interquartile range (I'R) is the difference between the upper and lower quartile. ICR represents the average half of the data. 18 19 Plot boxes and whiskers can be used to show how values in the dataset are distributed. The minimum is the lowest value, which is not an outlier. Maximum is the greatest value, which is not an outlier. You need five values to make a box and mustache plot: minimal, first quartile, median, third quartile, and maximum. 20 Mathematically, any value that is 1Mathematically, any value that is 1.5 (I'R) less than the first quartile or 1.5 (I'R) more than the third quartile is outlier. Useful Tip 21 Example 3: Sports ApplicationThe number of runs scored by a softball team in 19 games is given. 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