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## Date:

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## Bar Graphs and Line Plots

## Lesson 13.1 Making Bar Graphs with Scales

The picture graph shows the favorite shapes of some students in a school.
Favorite Shapes

1. Use the picture graph to draw the bar graph.

Favorite Shapes

$\qquad$

Kevin and his friends collect different kinds of model vehicles.

| Kind of <br> Model Vehicle | Tally <br> Model Ver of <br> Moles |  |
| :--- | :--- | :---: |
| Motorcycle | HH HH III | 13 |
| Truck | III | 3 |
| Bus | HH I | 6 |
| Bicycle | HH | 5 |
| Car | HH HH HH III | 18 |

2. Use the information above to draw a bar graph.

Model Vehicles Collected

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## Lesson 13.2 Reading and Interpreting Bar Graphs

The bar graph shows the flavors of breakfast bars that some children like most.
Use the bar graph to answer questions 1 to 5.
Flavors of Breakfast Bars that Students Like


1. How many children like cranberry flavored breakfast bars?
2. How many more children like apple flavored breakfast bars than vanilla flavored breakfast bars?
3. What is the total number of children who like strawberry flavored breakfast bars and blueberry flavored breakfast bars?
$\qquad$
4. What is the difference between the number of children who like the most popular breakfast bar and the number of children who like the least popular breakfast bar?
$\qquad$
5. How many children took part in the survey?

The bar graph shows the kinds of fruits children like.
Use the bar graph to answer questions 6 to 11.

6. How many children like strawberries and oranges?

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7. Which fruit is twice as popular as pears?
8. How many more children like the most popular fruit than the least popular fruit?
9. How many fewer children like grapes than plums?
10. The total number of children who like and is the same as the number of children who like strawberries.
11. Which of the above fruits do you like the most? Why do you like it?

The bar graph shows the favorite colors of a group of students. Use the bar graph to answer questions 12 to 15.

12. Four times as many students like $\qquad$ as green.
13. How many students like blue, red, or yellow in all?
$\qquad$
14. What is the difference between the number of students who like the most popular color and the number of students who like the least popular color?
$\qquad$
15. Together, 5 more students like $\qquad$ and
$\qquad$ than black.
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The bar graph shows the number of tourists who visited five places of interest in the United States in a week. Use the bar graph to answer questions 16 to 21.

Visits to Places of Interest

16. How many tourists visited the five places altogether?
$\qquad$
17. Which place had the least number of tourists?
$\qquad$
18. Which place had the greatest number of tourists?
19. How many more tourists went to Disneyland than the Statue of Liberty?
$\qquad$
20. Which place of interest had twice the number of tourists visiting than Yellowstone National Park had?
21. Which place of interest had 4 times as many tourists as the Grand Canyon?
$\qquad$
$\qquad$

## Lesson 13.3 Line Plots

## The tally chart shows the number of gold medals won by the elementary schools in a district. <br> Complete the tally chart.

1. 

Gold Medals Won

| Number of <br> Gold Medcls | Tally | Number of <br> Schools |
| :---: | :---: | :---: |
| 1 | HH | $\square$ |
| 2 | HI | $\square$ |
| 3 | HH HH | $\square$ |
| 4 | HH | $\square$ |

2. Use the data in the tally chart to make a line plot. Remember to give your line plot a title.
$\qquad$
$\qquad$

Answer each question. Use the data in your line plot.
3. How many schools are in the district?
$\qquad$
4. How many schools won 4 gold medals?
$\qquad$
5. How many more schools won 3 gold medals than 1 gold medal?

The list shows the number of laps a group of children jogged around the track.

Number of laps - 2, 3, 4, 2, 2, 6, 6, 5, 5, 5, 2, 5, 2, 2, 2, 2, 2, 3, 4, 4, 3, 2, 3, 3, 3, 2, 2, 4, 4, 4, 4, 4.
6. Complete the table.

| Number of Laps | Number of Children |
| :---: | :---: |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |

## Name:

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7. Show the data in a line plot. Remember to give your line plot a title.

## Answer each question. Use the data in your line plot.

8. How many children jogged 5 laps?
9. How many children jogged more than 3 laps?
10. What is the difference between the number of children who jogged the most laps and the number of children who jogged the fewest laps?
11. How many children took part in the survey?
12. $\qquad$ as many children jogged 2 laps as 3 laps.
13. Three times as many children jogged $\qquad$ laps as
$\square$ laps.

The table shows the points students earned in a math test.

| Points | Number of Students |
| :---: | :---: |
| 6 | 3 |
| 7 | 4 |
| 8 | 6 |
| 9 | 5 |
| 10 | 2 |

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Fill in the blank.
Use the data in the table on page 48.
14. Line plot $\qquad$ matches the given data.

## Explain the mistakes in the other line plots.

15. 

## Name:

$\qquad$
16.
$\qquad$
$\qquad$
17. $\qquad$
$\qquad$
$\qquad$

## Answer the question.

18. A survey asks 150 people how many pets they have. All the people answer $0,1,2,3,4$, or 5 . Would a line plot be a good way to show this data? Explain your thinking.
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Study the graph carefully and answer questions 1 to 7.


1. How many more stamps does Cindy have than Emily?
$\qquad$
2. Name the children who have collected less than 12 stamps.
3. Who has three times as many stamps as Belita?

## Name:

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$\qquad$
4. Who has half as many stamps as Devon?
$\qquad$
$\qquad$
5. Do you think that, together, Anna and Emily will be able to collect 30 stamps? Why or why not?
6. How many more stamps does the girl with the most stamps have than the girl with the fewest stamps?
$\qquad$
$\qquad$
7. If all 5 girls share the stamps equally,
a. how many stamps would each of them have?
$\qquad$
$\qquad$
b. how many stamps would Anna have to give away?
$\qquad$

