Jessica is surveying and graphing her friends’ favorite foods.

Use the data in the tally chart to complete the bar graph. Then answer the question. *(Lesson 13.1)*

### Kind of Food Tally

<table>
<thead>
<tr>
<th>Kind of Food</th>
<th>Sandwich</th>
<th>Pizza</th>
<th>Salad</th>
<th>Pasta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tally</td>
<td><img src="image" alt="Tally" /></td>
<td><img src="image" alt="Tally" /></td>
<td><img src="image" alt="Tally" /></td>
<td><img src="image" alt="Tally" /></td>
</tr>
</tbody>
</table>

### 1.

Use the data to complete the bar graph.

### 2.

How many friends did Jessica survey? ______
Complete. (Lesson 14.1)

3. The fraction shaded is __________.

4. The numerator of the fraction is __________.

5. The denominator of the fraction is __________.

Write the missing numerator or denominator. (Lesson 14.2)

6. $\frac{3}{4} = \frac{\underline{\phantom{1}}} {12}$

7. $\frac{6}{8} = \frac{\underline{\phantom{1}}} {\underline{\phantom{10}}} = \frac{3}{\underline{\phantom{10}}}$

8. $\frac{\underline{\phantom{10}}} {5} = \frac{2}{\underline{\phantom{1}}} = \frac{\underline{\phantom{1}}} {20}$ (Lesson 14.3)

9. $\frac{\underline{\phantom{1}}} {\underline{\phantom{1}}} = \frac{6}{\underline{\phantom{1}}} = \frac{\underline{\phantom{1}}} {\underline{\phantom{1}}} = \frac{\underline{\phantom{1}}} {\underline{\phantom{1}}}$ (Lesson 14.3)

Complete.
Express each fraction in simplest form. (Lesson 14.3)

10. $\frac{6}{10} = \underline{\phantom{10}}$

11. $\frac{8}{12} = \underline{\phantom{10}}$

Circle the fraction that is greater. (Lesson 14.4)

12. $\frac{5}{6}$ or $\frac{2}{3}$

13. $\frac{2}{5}$ or $\frac{5}{8}$
Circle the fraction that is less. (Lesson 14.4)

14. \( \frac{5}{7} \) or \( \frac{5}{9} \)  

15. \( \frac{4}{9} \) or \( \frac{5}{7} \)

Compare. Write > or <. (Lesson 14.4)

16. \( \frac{4}{5} \) \( \square \) \( \frac{3}{8} \)  

17. \( \frac{3}{7} \) \( \square \) \( \frac{7}{12} \)

Order the fractions from least to greatest. (Lesson 14.4)

18. \( \frac{1}{2} \), \( \frac{3}{8} \), \( \frac{7}{12} \)  

Order the fractions from greatest to least.

19. \( \frac{1}{6} \), \( \frac{3}{4} \), \( \frac{2}{3} \)  

Complete. Show each fraction on the number line. (Lesson 14.4)

The example shows a fraction less than \( \frac{1}{2} \) but greater than \( \frac{1}{4} \).

20. A fraction greater than \( \frac{1}{2} \) but less than \( \frac{3}{4} \)  

21. A fraction less than \( \frac{1}{6} \)  

22. A fraction greater than \( \frac{5}{6} \)
Color the pictures to find the fractional part of each set. (Lesson 14.5)

23. \( \frac{1}{2} \) of 10

24. \( \frac{3}{8} \) of 16

Write a fraction for the part of each set that is shaded. (Lesson 14.6)

25.

26.

Write two fractions to show the following whole numbers. (Lesson 14.5)

27. \( 2 = \frac{2}{4} = \frac{4}{8} \)

28. \( 5 = \frac{5}{10} = \frac{10}{20} \)

Complete. (Lesson 14.5)

29. \( 1 = \frac{4}{8} \)

30. \( 2 = \frac{8}{8} \)
Complete.
Measure Line segment A to the nearest: (Lesson 15.1)

31. inch. ________ in.  
32. half inch. ________ in.

Measure the length of the rope to the nearest quarter inch. (Lesson 15.1)

33. The length of the rope is ________ inches.

Measure the length of the pencil to the nearest quarter inch. (Lesson 15.1)

34. The length of the pencil is ________ inches.

Choose the best unit of measure for measuring each length. Write inch, foot, yard, or mile. (Lesson 15.1)

35. The width of a finger  
36. The length of a baseball bat  
37. The length of a playground  
38. The distance walked in 1 hour
Complete. (Lesson 15.2)

39. The cherries weigh _______ ounces.

40. Each loaf of bread weighs about 1 pound.

The pineapple weighs about _______ pounds.

Choose the best unit of measure for weighing each item. Write ounce, pound, or ton. (Lesson 15.2)

41. A dog

42. A box of toothpicks

43. A hippopotamus

Compare. Write > or <. (Lesson 15.2)

44. 1 oz   8 lb

45. 100 lb   100 ton
Complete. (Lesson 15.3)

46. The pitcher is completely filled with water. The water is emptied into cups.

The capacity of the pitcher is about _________ cups.

47. 5 pints of water are poured to fill a container.

The capacity of the container is about _________ pints.

Circle the better estimate. (Lesson 15.3)

48. The capacity of a car’s fuel tank is 20 gallons / 20 pints.

49. The amount of yogurt eaten for lunch is 1 cup / 1 quart.

Order from greatest capacity to least capacity. (Lesson 15.3)

50. 6 pt 14 qt 2 gal

51. 1 gal 18 cups 10 pt
Problem Solving

Miguel conducted a survey to find the number of hours that some students spend playing their favorite sport each week.

He recorded the data in a table.

**Hours Spent on Favorite Sport**

<table>
<thead>
<tr>
<th>Favorite Sport</th>
<th>Number of Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gymnastics</td>
<td>4</td>
</tr>
<tr>
<td>Football</td>
<td>6</td>
</tr>
<tr>
<td>Swimming</td>
<td>8</td>
</tr>
<tr>
<td>Jogging</td>
<td>8</td>
</tr>
<tr>
<td>Tennis</td>
<td>6</td>
</tr>
<tr>
<td>Cross Country</td>
<td>7</td>
</tr>
<tr>
<td>Baseball</td>
<td>6</td>
</tr>
<tr>
<td>Softball</td>
<td>6</td>
</tr>
<tr>
<td>Biking</td>
<td>8</td>
</tr>
<tr>
<td>Lacrosse</td>
<td>6</td>
</tr>
<tr>
<td>Volleyball</td>
<td>7</td>
</tr>
<tr>
<td>Soccer</td>
<td>6</td>
</tr>
</tbody>
</table>
Show the data on a line plot. Give your line plot a title.

52.

Answer each question. Use the data on your line plot.

53. How many students spend more than 5 hours on their favorite sport? ________

54. How many hours did most students spend on their favorite sport? ________ hours

55. The number of students who spent 6 hours on their favorite sport is ________ times the number of students who spent 7 hours.

56. There are ________ fewer students who spent 5 hours on their favorite sport than those who spent 8 hours.

57. If a total of 15 students were surveyed, how many students do not spend any time on sports? ________
The bar graph shows the number of points scored by four basketball players.

![Bar Graph](image)

**Use the bar graph to answer the questions.**

58. How many points did Edwin score?

59. Edwin scored 20 more points than Rachel. How many points did Rachel score?

60. Use your answer from Exercise 59 to complete the bar graph for Rachel.

61. Edwin scored three times as many points as one of the players. Who is this player?

62. Who scored the least number of points?