Multiple Choice
Identify the choice that best completes the statement or answers the question.

Choose the best answer.

1. The image shown here is called a
   a. bar graph  
   b. circle graph  
   c. double bar graph  
   d. pictograph

2. Based on the graph, how many people ate apples for lunch?
   a. 20  
   b. 30  
   c. 40  
   d. 50
3. In the graph, how many people prefer to have peanut butter on their toast?
   a. 15 b. 17 c. 19 d. 20

4. According to the circle graph, which test did the class do best on?
   a. Fraction Test b. Graphing Test c. Percent Test d. Probability Test
5. On which two tests did the class score at the same level?
   a. Fraction Test and Geometry Test  
   b. Fraction Test and Probability Test  
   c. Geometry Test and Graphing Test  
   d. Percent Test and Probability Test

6. Determine from the graph which student improved the most over the six tests, and by how much more.
   a. Both students improved the same amount.
   b. Gary improved by 20 marks.
   c. Keely improved by 30 marks.
   d. Keely improved by 10 marks more than Gary did.

7. What conclusion could you draw from this graph?
   a. both students were improving over time
   b. both students were not doing as well over time
   c. Gary was doing better but Keely was not doing as well
   d. Keely was doing better but Gary was staying at the same level
8. Based on the frequency table, the movie type liked by the fewest number of people is
   a. Adventure
   b. Animated
   c. Drama
   d. Science Fiction

9. A basketball player is participating in a special training program. The graph shows his scoring over the last six games. These data suggest that the training program has
   a. allowed the player to improve in each game
   b. allowed the player to improve only over the last three games
   c. not allowed the player to improve
   d. supported some improvement but the improvements are not seen every game
10. A coach is checking the statistics on a player and wants to know whether the player is making progress over the season. Is the above graph the best graph to use?
   a. no, because you cannot see the full season
   b. no, because you cannot easily compare the data between two games
   c. yes, because you can see a positive trend in the data over time
   d. yes, because the data can be easily counted

11. According to the graph, how many times did Brandon successfully sink the ball?
   a. 40       b. 42       c. 45       d. 50
12. According to the graph, how many successful shots were made altogether by Sandi, Lori, Larry, and Farah?
   a. 195    b. 210    c. 214    d. 220
13. Based on the information in the graph, by the end of game six
   a. both girls have improved by the same amount
   b. Erica has improved more than Julie
   c. Julie has improved more than Erica
   d. neither girl has improved
14. Which graph best shows the number of rows used for each vegetable?
   a. the bar graph, because it clearly shows numbers along the y-axis
   b. the bar graph, because it displays the vegetables so clearly
   c. the circle graph, because it shows percents
   d. the circle graph, because the sum of all the data is 100%

15. Which graph best shows the fraction of the garden used for each vegetable?
   a. the bar graph, because it clearly shows numbers along the y-axis
   b. the bar graph, because it displays the vegetables so clearly
   c. the circle graph, because it shows percents
   d. the circle graph, because the sum of all the data is 100%
16. A gardener is trying to determine what approximate fraction of space in his garden each type of vegetable will need. Which graph would you suggest he use?
   a. the circle graph, because it shows percents
   b. the circle graph, because the sum of all the data is 100%
   c. the pictograph, because he can tell from the pictures how big the vegetables are
   d. the pictograph, because it shows the vegetables in rows

17. Which of the two graphs would you use if you wanted to know the total number of plants in the garden?
   a. the circle graph, because it is easy to add the percents
   b. the circle graph, because it tells you there are 100 plants
   c. the pictograph, because the symbols are easy to count
   d. the pictograph, because you can see how many carrot plants are in each picture
18. Which person had the fewest number of phone calls?
   a. Barry
   b. Bart
   c. Indira
   d. Kristi
19. What makes this graph useful when determining how many people chose a movie type?
   a. all the bars are shaded in different patterns
   b. it labels the numbers along the vertical axis
   c. it lists the movie types in alphabetical order
   d. it is made on a computer

20. In total, how many people were surveyed?
   a. 75
   b. 100
   c. 125
   d. 130
Completion
Complete each statement.

The figure shown above is a __________________________.

Based on the graph shown, the mark scored on Test 3 is __________________________.

Matching

Match the correct term to each of the definitions or descriptions given below. Terms may be used more than once or not at all.

a. bar graph  
 b. circle graph  
 c. double bar graph  
 d. double line graph 
 e. frequency table 
 f. pictograph

23. best for comparing categories to the whole using percents
24. best for comparing two sets of data over time
25. best for comparing data that can be easily counted and represented using symbols
26. best for comparing two sets of data across categories
27. best for comparing data across categories
Choose the term that best matches each example. Terms may be used more than once or not at all.

a. axis
b. bar graph
c. distort the scale
d. distort the size of bars
e. distort the visuals
f. frequency table
g. line graph
h. pictograph

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28. [Diagram of a pictograph showing bears of different species with a key representing 10 people]

29. [Diagram of a bar graph showing the most popular ice cream flavors with chocolate chip being the highest]
32. [Graph showing number of baskets scored over games]

33. 

<table>
<thead>
<tr>
<th>Participants</th>
<th>Votes</th>
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<tr>
<td>Andrew</td>
<td>12</td>
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<tr>
<td>Annabelle</td>
<td>16</td>
</tr>
<tr>
<td>Rahim</td>
<td>14</td>
</tr>
<tr>
<td>Raina</td>
<td>11</td>
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