

# Bar Graphs

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 24

## Q Quick Review

A **bar graph** shows data using **bars**. A longer bar means a bigger number and a shorter bar means a smaller number. Each bar has a **label**, and the side of the graph has a **scale** of numbers. To read a bar, follow it to the top and see what number it reaches. To compare two bars, find both numbers and subtract. To find a total, add the bars. Bar graphs make it quick to see which group has the most or the least.

◇ **Example:** A bar graph shows 8 cats and 5 dogs. How many more cats than dogs are there?

⇒ First we read each bar. The cat bar reaches 8 and the dog bar reaches 5. The word “more” tells us to subtract. We take away the smaller number from the bigger one:  $8 - 5 = 3$ . So there are 3 more cats than dogs.

**Answer:** 3 more cats

## PRACTICE

Read each described bar graph and answer the question.

- A bar graph shows 9 red and 5 blue. How many more red? \_\_\_\_\_
- A bar graph shows 6 apples and 4 pears. How many fruits in all? \_\_\_\_\_
- A bar graph shows 7 cars and 3 trucks. How many more cars? \_\_\_\_\_
- A bar graph shows 5 dogs, 8 cats, 2 birds. How many pets in all? \_\_\_\_\_
- A bar graph shows 10 green and 6 yellow. How many more green? \_\_\_\_\_
- A bar graph shows 4 books and 9 toys. Which bar is longer? \_\_\_\_\_
- A bar graph shows 3 kites, 7 balls, 5 jump ropes. Which has the most? \_\_\_\_\_
- A bar graph shows 8 stars and 8 moons. How many in all? \_\_\_\_\_
- A bar graph shows 6 boys and 2 girls. How many more boys? \_\_\_\_\_
- A bar graph shows 9 roses, 4 tulips, 1 daisy. How many flowers in all? \_\_\_\_\_
- A bar graph shows 5 pizza and 7 tacos. Which bar is shorter? \_\_\_\_\_
- A bar graph shows 10 summer and 3 winter. How many votes in all? \_\_\_\_\_
- A bar graph shows 7 blue, 7 red, 4 green. How many in all? \_\_\_\_\_
- A bar graph shows 8 tigers and 5 lions. How many more tigers? \_\_\_\_\_
- A bar graph shows 2 rainy, 6 sunny, 3 cloudy days. Which has the least? \_\_\_\_\_
- A bar graph shows 9 stickers and 9 stamps. How many more stickers? \_\_\_\_\_
- A bar graph shows 6 chocolate and 4 vanilla. How many scoops in all? \_\_\_\_\_
- A bar graph shows 10 winners and 7 runners-up. How many more winners? \_\_\_\_\_
- A bar graph shows 4 red, 5 blue, 6 green marbles. How many in all? \_\_\_\_\_
- A bar graph shows 8 soccer and 1 tennis. How many more soccer? \_\_\_\_\_

## ◆ Word Problems

- A bar graph shows the class's favorite snacks. The popcorn bar reaches 9 and the pretzel bar reaches 6. How many more children chose popcorn than pretzels? \_\_\_\_\_
- A bar graph shows how many laps each runner finished. Maya's bar reaches 7, Ben's bar reaches 5, and Cara's bar reaches 8. How many laps did the three runners finish in all? \_\_\_\_\_



23. A bar graph shows pets in a classroom. The fish bar reaches 4, the cat bar reaches 9, and the bird bar reaches 2. Which pet do the most students have? \_\_\_\_\_

24. A bar graph shows juice boxes sold. The apple bar reaches 10 and the grape bar reaches 4. How many juice boxes were sold in all? \_\_\_\_\_



## Answer Keys

- |                  |                     |
|------------------|---------------------|
| 1. 4             | 13. 18              |
| 2. 10            | 14. 3               |
| 3. 4             | 15. <i>rainy</i>    |
| 4. 15            | 16. 0               |
| 5. 4             | 17. 10              |
| 6. <i>toys</i>   | 18. 3               |
| 7. <i>balls</i>  | 19. 15              |
| 8. 16            | 20. 7               |
| 9. 4             | 21. 3 more children |
| 10. 14           | 22. 20 laps         |
| 11. <i>pizza</i> | 23. <i>Cats</i>     |
| 12. 13           | 24. 14 juice boxes  |

### Step-by-Step Explanations

- |  |  |
|--|--|
| <p>1. Subtract to compare: <math>9 - 5 = 4</math> more red.</p> <p>2. Add the bars: <math>6 + 4 = 10</math> fruits in all.</p> <p>3. Subtract to compare: <math>7 - 3 = 4</math> more cars.</p> <p>4. Add the bars: <math>5 + 8 + 2 = 15</math> pets in all.</p> <p>5. Subtract to compare: <math>10 - 6 = 4</math> more green.</p> <p>6. The toy bar reaches 9 and the book bar reaches 4, so toys is longer.</p> <p>7. The ball bar reaches 7, more than 3 and 5, so balls has the most.</p> <p>8. Add the bars: <math>8 + 8 = 16</math> in all.</p> <p>9. Subtract to compare: <math>6 - 2 = 4</math> more boys.</p> <p>10. Add the bars: <math>9 + 4 + 1 = 14</math> flowers in all.</p> <p>11. The pizza bar reaches 5 and the taco bar reaches 7, so pizza is shorter.</p> <p>12. Add the bars: <math>10 + 3 = 13</math> votes in all.</p> | <p>13. Add the bars: <math>7 + 7 + 4 = 18</math> in all.</p> <p>14. Subtract to compare: <math>8 - 5 = 3</math> more tigers.</p> <p>15. The rainy bar reaches 2, less than 6 and 3, so rainy has the least.</p> <p>16. Both bars reach 9, so <math>9 - 9 = 0</math>; there are no more stickers.</p> <p>17. Add the bars: <math>6 + 4 = 10</math> scoops in all.</p> <p>18. Subtract to compare: <math>10 - 7 = 3</math> more winners.</p> <p>19. Add the bars: <math>4 + 5 + 6 = 15</math> marbles in all.</p> <p>20. Subtract to compare: <math>8 - 1 = 7</math> more soccer.</p> <p>21. Read both bars and subtract: <math>9 - 6 = 3</math> more children chose popcorn.</p> <p>22. Add all three bars: <math>7 + 5 + 8 = 20</math> laps in all.</p> <p>23. The cat bar reaches 9, which is taller than the fish bar at 4 and the bird bar at 2. So most students have cats.</p> <p>24. Add the two bars together: <math>10 + 4 = 14</math> juice boxes in all.</p> |
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