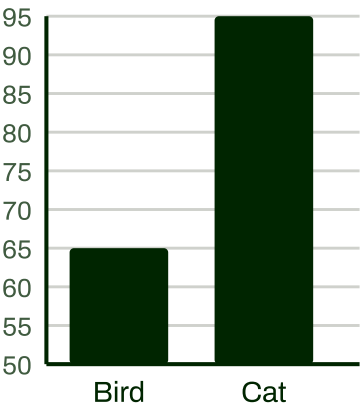


# Detect a truncated or distorted axis

|      |      |       |
|------|------|-------|
| NAME | DATE | SCORE |
|      |      | / 10  |

1

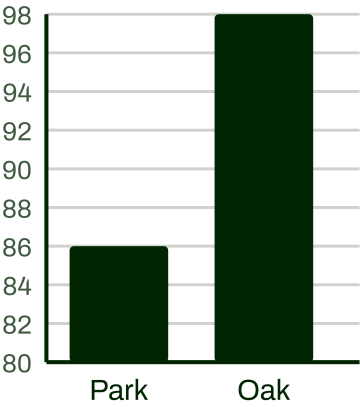
The bar graph shows how many votes two pets got when a school chose a class pet. The bar for the cat is 3 times as tall as the bar for the bird. Did the cat get 3 times as many votes as the bird?



- ☐ Yes: the cat got 45 and the bird got 15
 ☐ No: the cat got only 6 more votes
- ☐ Yes: its bar is 3 times as tall
 ☐ No: the scale starts at 50, so the cat got only 30 more votes

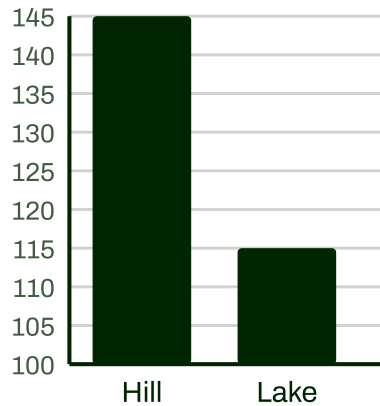
2

The bar graph shows how many tickets two schools sold for a show. The bar for Oak School is 3 times as tall as the bar for Park School. How many more tickets did Oak School sell than Park School?



**3**

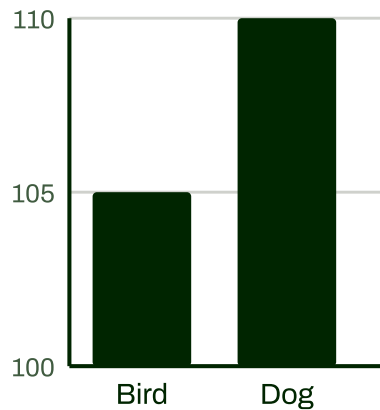
The bar graph shows how many tickets two schools sold for a show. The bar for Hill School is 3 times as tall as the bar for Lake School. Did Hill School sell 3 times as many tickets as Lake School?



- ☐ No: Hill School sold only 6 more tickets   
 ☐ Yes: its bar is 3 times as tall  
☐ Yes: Hill School sold 45 and Lake School sold 15  
☐ No: the scale starts at 100, so Hill School sold only 30 more tickets

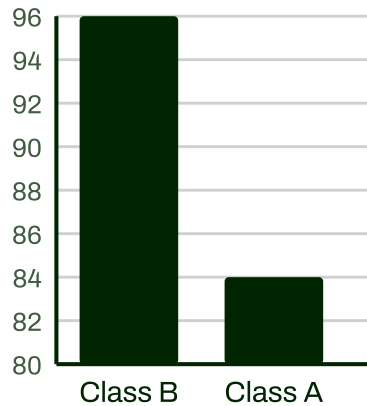
**4**

The bar graph shows how many votes two pets got when a school chose a class pet. The bar for the dog is 2 times as tall as the bar for the bird. How many more votes did the dog get than the bird?



**5**

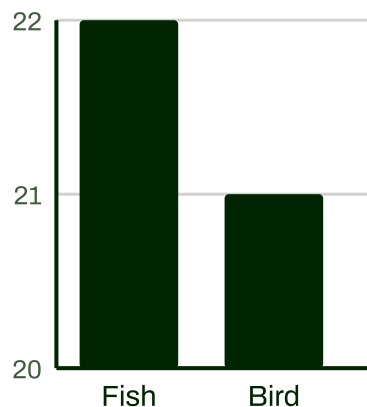
The bar graph shows how many cans two classes collected. The bar for Class B is 4 times as tall as the bar for Class A. Did Class B collect 4 times as many cans as Class A?



- ☐ Yes: Class B collected 16 and Class A collected 4  
☐ No: Class B collected only 6 more cans    ☐ Yes: its bar is 4 times as tall  
☐ No: the scale starts at 80, so Class B collected only 12 more cans

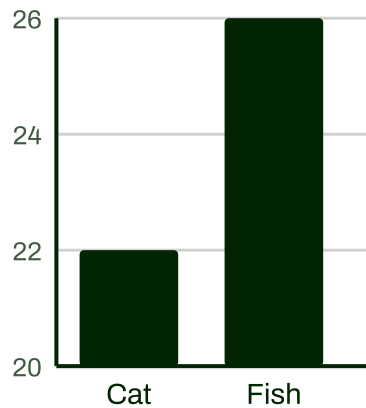
**6**

The bar graph shows how many votes two pets got when a school chose a class pet. The bar for the fish is 2 times as tall as the bar for the bird. How many more votes did the fish get than the bird?



7

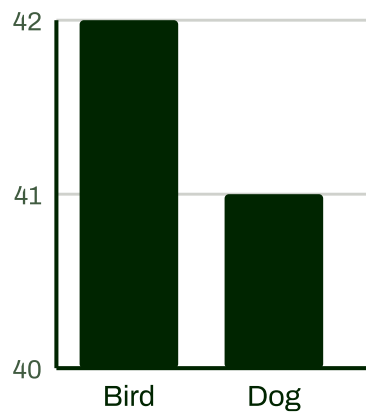
The bar graph shows how many votes two pets got when a school chose a class pet. The bar for the fish is 3 times as tall as the bar for the cat. Did the fish get 3 times as many votes as the cat?



- ☐ No: the scale starts at 20, so the fish got only 4 more votes  
☐ Yes: the fish got 6 and the cat got 2    ☐ Yes: its bar is 3 times as tall  
☐ No: the fish got only 2 more votes

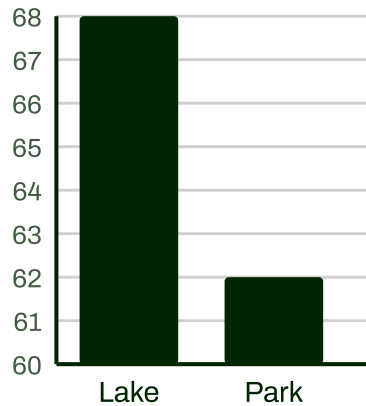
8

The bar graph shows how many votes two pets got when a school chose a class pet. The bar for the bird is 2 times as tall as the bar for the dog. How many more votes did the bird get than the dog?



**9**

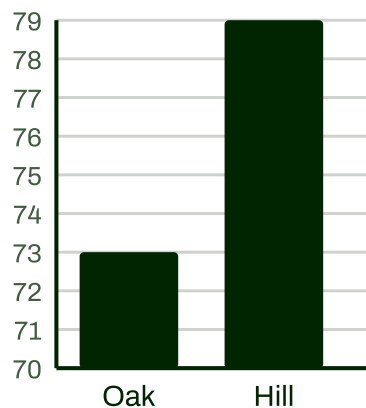
The bar graph shows how many tickets two schools sold for a show. The bar for Lake School is 4 times as tall as the bar for Park School. Did Lake School sell 4 times as many tickets as Park School?



- ☐ Yes: its bar is 4 times as tall    ☐ Yes: Lake School sold 8 and Park School sold 2  
☐ No: the scale starts at 60, so Lake School sold only 6 more tickets

**10**

The bar graph shows how many tickets two schools sold for a show. The bar for Hill School is 3 times as tall as the bar for Oak School. How many more tickets did Hill School sell than Oak School?



# Detect a truncated or distorted axis

|   |                                                                       |    |    |
|---|-----------------------------------------------------------------------|----|----|
| 1 | No: the scale starts at 50, so the cat got only 30 more votes         | 2  | 12 |
| 3 | No: the scale starts at 100, so Hill School sold only 30 more tickets | 4  | 5  |
| 5 | No: the scale starts at 80, so Class B collected only 12 more cans    | 6  | 1  |
| 7 | No: the scale starts at 20, so the fish got only 4 more votes         | 8  | 1  |
| 9 | No: the scale starts at 60, so Lake School sold only 6 more tickets   | 10 | 6  |