ALBERT Name _____ Date _____

Picture Graphs and Bar Graphs Worksheet

Grade 3 · Common Core 3.MD.B.3

> Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step "how many more" and "how many less" problems using information presented in scaled bar graphs.

Practice

Builds the skill step by step.

1. The picture graph shows the favorite fruits of a class. Each ★ stands for 2 students. How many students chose banana?

Fruit	Students (each ★ = 2 students)
Apple	★ ★ ★
Banana	★ ★ ★ ★ ★
Grape	★ ★
Orange	★ ★ ★ ★

2. The picture graph shows the favorite fruits of a class. Each ★ stands for 2 students. How many more students chose orange than grape?

Fruit	Students (each ★ = 2 students)
Apple	★ ★ ★
Banana	★ ★ ★ ★ ★
Grape	★ ★
Orange	★ ★ ★ ★

3. The picture graph shows the favorite fruits of a class. Each ★ stands for 2 students. Which fruit did exactly 6 students choose?

Fruit	Students (each ★ = 2 students)
Apple	★ ★ ★
Banana	★ ★ ★ ★ ★
Grape	★ ★
Orange	★ ★ ★ ★

A. Orange

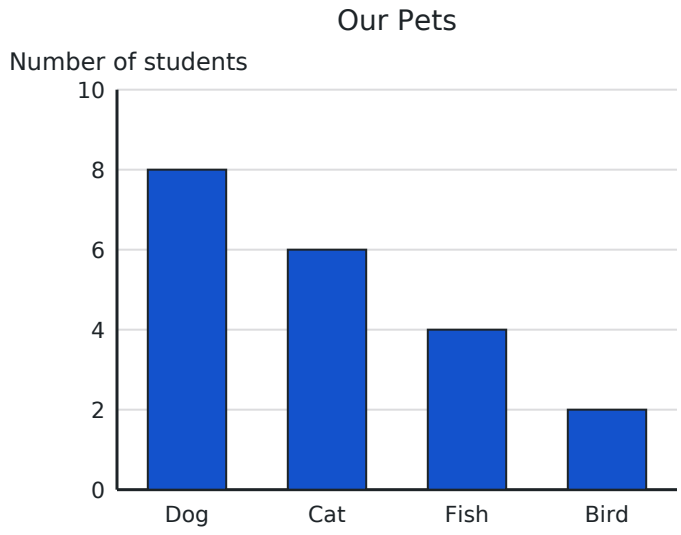
B. Grape

C. Banana

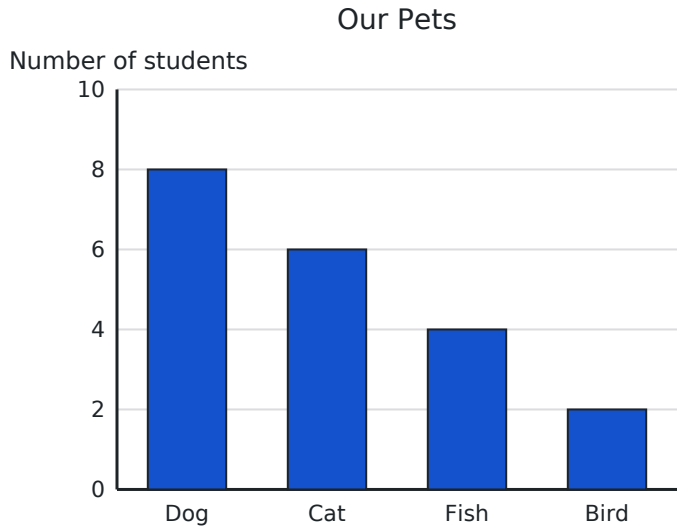
D. Apple

4. In a picture graph, each ★ stands for 2 books. How many ★ should you draw to show 12 books?

5. Use the bar graph. How many students have a dog?



6. Use the bar graph. How many fewer students have a fish than a dog?



7. A bar graph's scale counts by 2s. A bar stops halfway between 6 and 8. What number does the bar show?

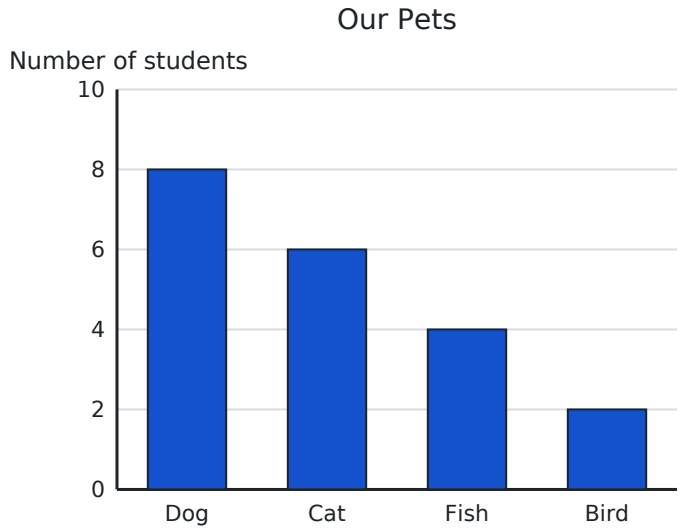
   A. 6

   B. 7

   C. 8

   D. 14

8. Use the bar graph. How many students in all have a cat or a bird?



9. In a picture graph, each ● stands for 5 cars. How many cars do 3 ● show?

10. A bar graph's scale counts by 5s. Which numbers could be on its scale?

    A. 0, 1, 2, 3, 4

    B. 5, 10, 20, 40, 80

    C. 0, 5, 10, 15, 20

    D. 0, 2, 4, 6, 8

ALBERT

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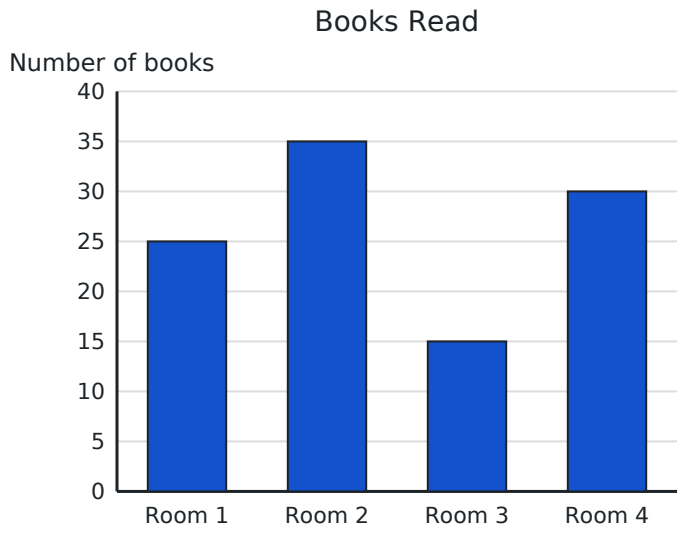
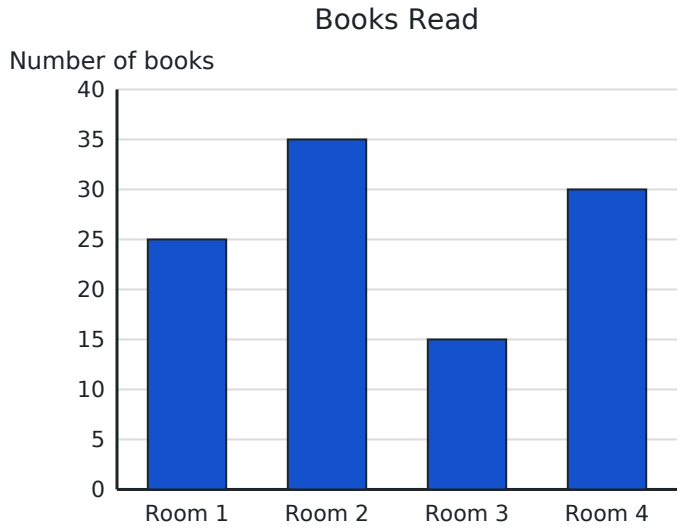
On Level

Grade-level practice.

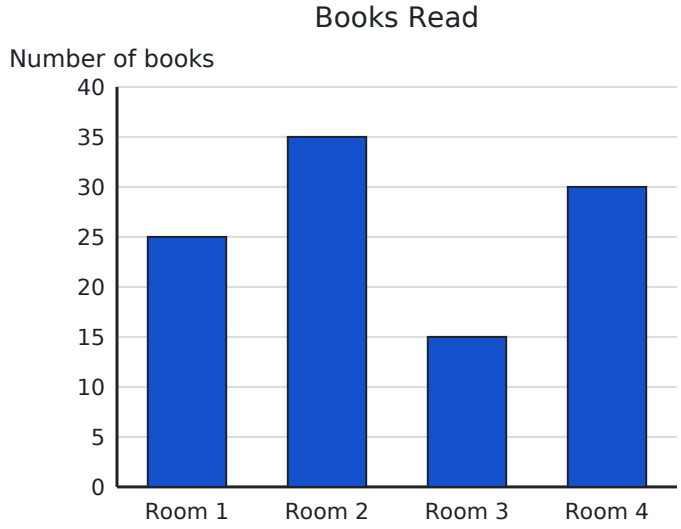
1. Use the bar graph. How many books did Room 2 read?



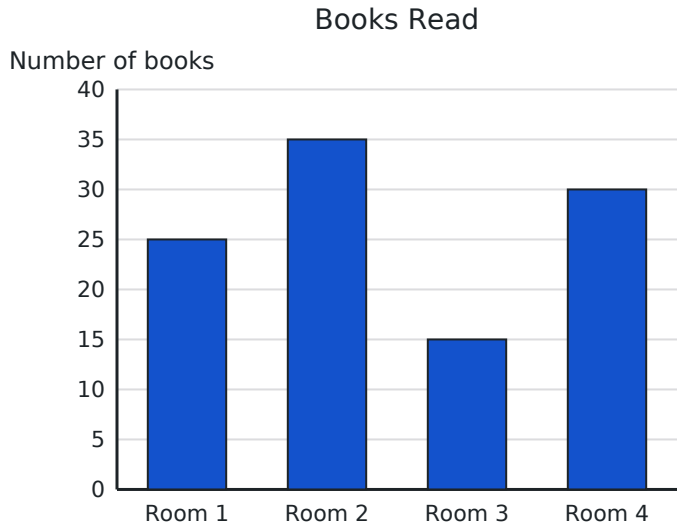
2. Use the bar graph. How many more books did Room 2 read than Room 3?



3. Use the bar graph. How many books did Room 1 and Room 4 read together?



4. Use the bar graph. Which room read 5 fewer books than Room 4?



A. Room 1

B. Room 2

C. Room 3

D. Room 4

5. The picture graph shows cans collected for a food drive. Each ■ stands for 10 cans. How many cans were collected on Tuesday?

Day	Cans (each ■ = 10 cans)
Monday	■ ■ ■
Tuesday	■ ■ ■ ■ ■
Wednesday	■ ■
Thursday	■ ■ ■ ■

6. The picture graph shows cans collected for a food drive. Each ■ stands for 10 cans. How many more cans were collected on Thursday than on Wednesday?

Day	Cans (each ■ = 10 cans)
Monday	■ ■ ■
Tuesday	■ ■ ■ ■ ■
Wednesday	■ ■
Thursday	■ ■ ■ ■

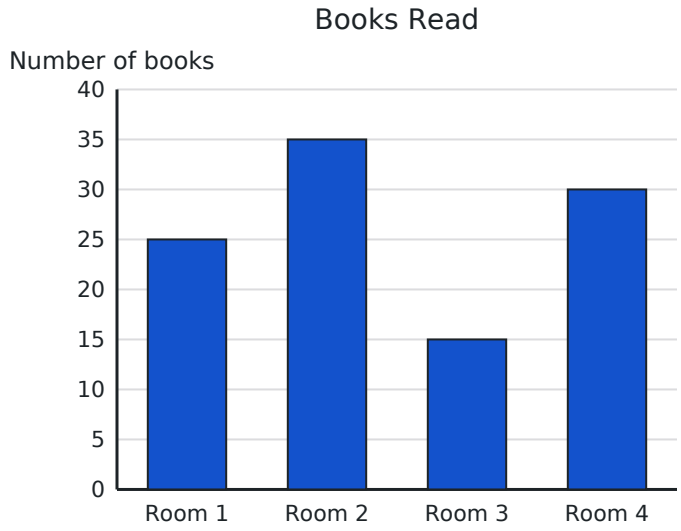
7. The picture graph shows cans collected for a food drive. Each ■ stands for 10 cans. How many cans were collected in all four days?

Day	Cans (each ■ = 10 cans)
Monday	■ ■ ■
Tuesday	■ ■ ■ ■ ■
Wednesday	■ ■
Thursday	■ ■ ■ ■

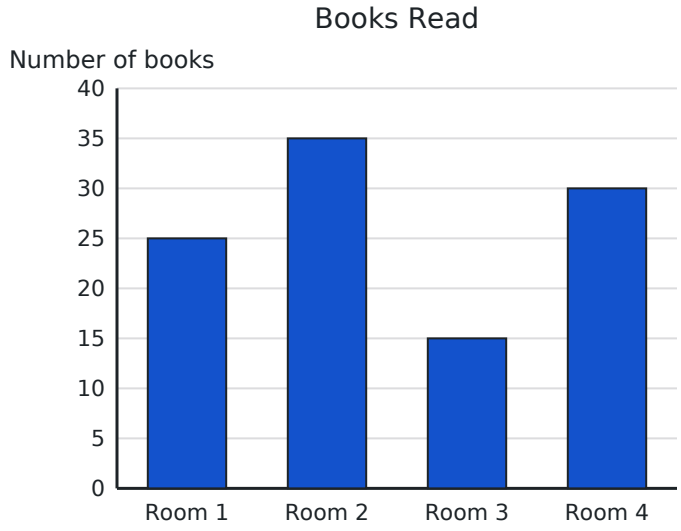
8. The picture graph shows cans collected for a food drive. Each ■ stands for 10 cans. On Friday the class collected 60 cans. How many ■ should be drawn for Friday?

Day	Cans (each ■ = 10 cans)
Monday	■ ■ ■
Tuesday	■ ■ ■ ■ ■
Wednesday	■ ■
Thursday	■ ■ ■ ■

9. Use the bar graph. How many books did all four rooms read in all?



10. Use the bar graph. How many more books does Room 3 need to read to have as many as Room 1?



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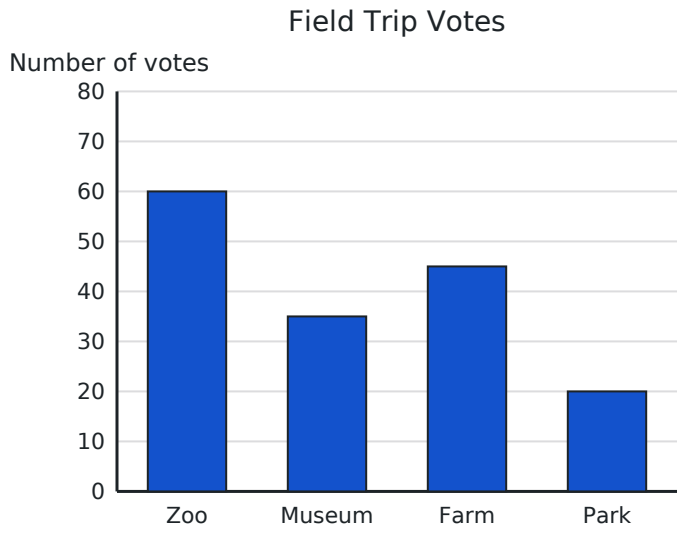
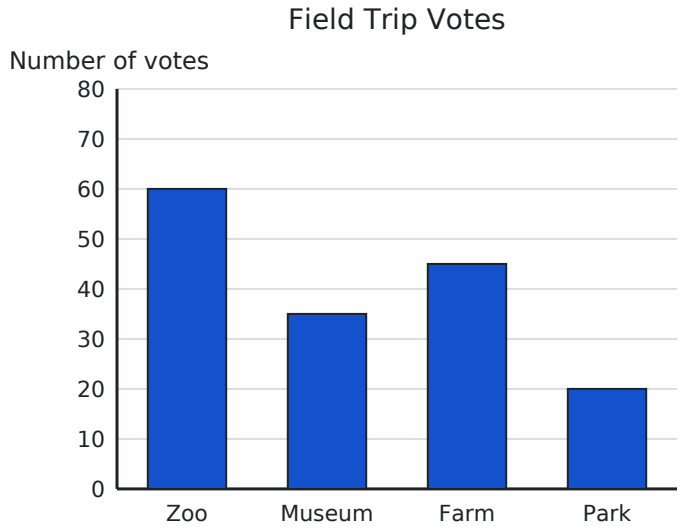
Challenge

Multi-step and word problems that stretch it.

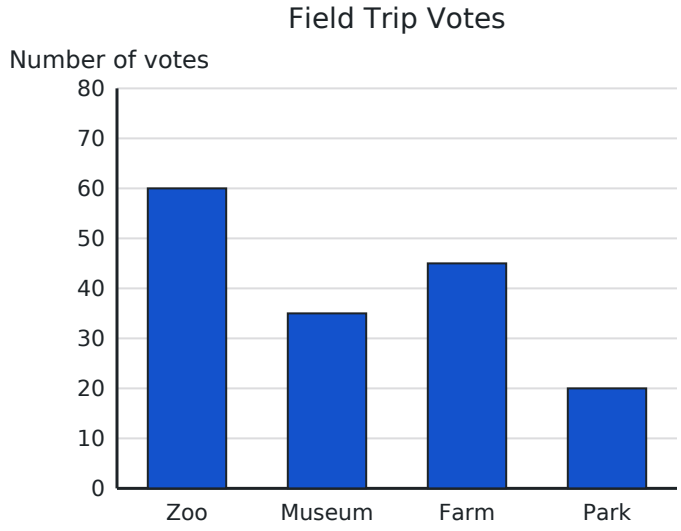
1. Use the bar graph. How many votes did the farm get?



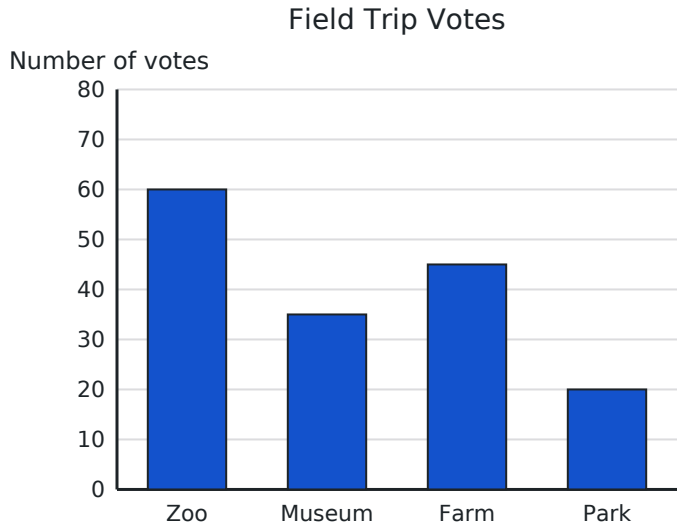
2. Use the bar graph. How many more votes did the zoo get than the museum and the park together?



3. Use the bar graph. How many fewer votes did the park get than the farm?



4. Use the bar graph. Mia says the museum got 30 votes. What mistake did she make?



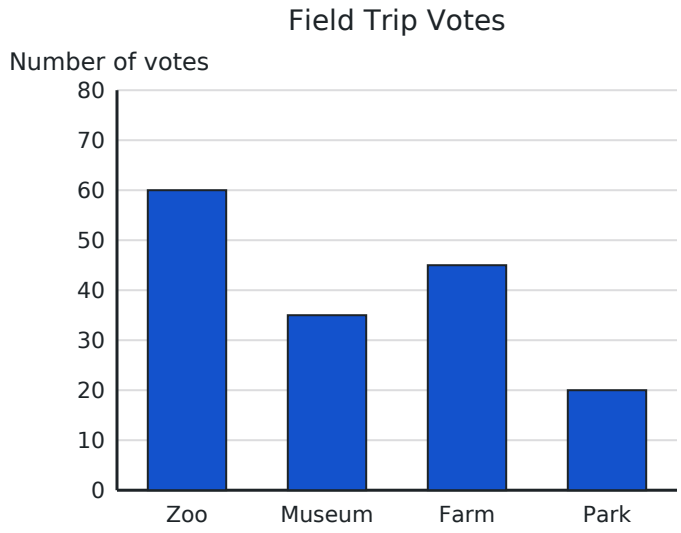
A. The bar is halfway between 30 and 40, so it shows 35.

B. She should count the bars instead of reading the scale.

C. The museum bar shows 40.

D. There is no mistake. The museum got 30 votes.

5. Use the bar graph. Suppose 10 more students vote for the park. How many more votes would the park then need to tie the farm?



6. The picture graph shows laps run by a running club. Each ♦ stands for 4 laps. How many more laps were run on Wednesday and Thursday together than on Tuesday?

Day	Laps (each ♦ = 4 laps)
Monday	♦ ♦ ♦
Tuesday	♦ ♦ ♦ ♦ ♦
Wednesday	♦ ♦ ♦ ♦
Thursday	♦ ♦

7. The picture graph shows laps run by a running club. Each ♦ stands for 4 laps. On Friday the club ran 8 more laps than on Monday. How many ♦ should be drawn for Friday?

Day	Laps (each ♦ = 4 laps)
Monday	♦ ♦ ♦
Tuesday	♦ ♦ ♦ ♦ ♦
Wednesday	♦ ♦ ♦ ♦
Thursday	♦ ♦

8. A class voted on colors: red 12, blue 18, green 6 and yellow 24. Which key lets every row of a picture graph use only whole symbols?

   A. Each ● = 5 votes

   B. Each ● = 4 votes

   C. Each ● = 10 votes

   D. Each ● = 6 votes

9. In a picture graph, each ● stands for 6 votes. Blue has 18 votes and green has 6 votes. How many more ● does blue have than green?

10. Use the bar graph. How many more votes did the place with the most votes get than the place with the second-most votes?

