

Name: _____ Date: _____

Graph It and Explain

GRADE 1

MATHEMATICS

B2.3

D1.3

A graph can be finished even when one row is missing, because the rows have to add up to the total. This store day had 9 stickers, 4 badges and 2 books, and 20 things were bought altogether.

PART A: FIND THE MISSING ROW

1. Stickers, badges and books together make _____.
2. If all four rows make 20, the pencil row must be _____.
3. Stickers take away pencils is _____.
4. Pencils and badges together are _____.

PART B: CHECK IT TWO WAYS

5. The badge row has 4 pictures. If one picture stood for 2 things instead of 1, how many pictures would that row need?

SHOW YOUR WORK

Answer: _____

6. Two classes graphed the same 9 stickers. One drew a row of 9 pictures and the other drew a row of 3. What could explain that?

SHOW YOUR WORK

Answer: _____

7. How many things were bought altogether? Check your answer without adding all four rows again.

SHOW YOUR WORK

Answer: _____

PART C: WHAT A GRAPH MUST SAY

8. Why must a graph say what one picture stands for?
- ☐ A So readers know how many things each picture means ☐ B So the graph looks tidy
- ☐ C So all the pictures are the same size
9. A row of 6 pictures, where each picture is one thing, shows:
- ☐ A 6 things ☐ B 1 thing ☐ C 12 things

PART D: MAKE YOUR OWN

10. Make up your own store day. Choose four things and how many of each, no more than 10 of any one thing. Draw the graph with one star for each thing, add a title and labels, and write one question a reader could answer from it.

TITLE _____

KEY: ☆ = 1

Graph It and Explain

ANSWER KEY

1. 15
2. 5
3. 4
4. 9
5. 2 pictures.
6. In the second graph one picture stood for 3 things, so 3 pictures showed all 9 stickers.
7. 20 altogether. Part A already gives the other three rows as 15, so adding the pencil row of 5 gets back to 20 without counting every picture again.
8. A) So readers know how many things each picture means
9. A) 6 things
10. Answers will vary and must include four kinds with a count for each, a row of stars per kind, a title, labels, and a question the graph can actually answer, such as which kind was bought most.

TEACHER NOTES

Extension beyond the grade-level expectation: Part A works backwards from a total to a missing row, Part B introduces the idea that one picture could stand for more than one thing, and Part B question 3 asks for a second route to the same total.