

A Two-Way Tally Table

GRADE 2

MATHEMATICS

D1.2

D1.3

Some questions need two pieces of information at once. A two-way tally table keeps both: the day runs down the side and the item runs across the top. Count the tally marks in the table below along the rows and down the columns.

What We Bought This Week

Day	Stickers	Pencils
Monday		
Wednesday		
Friday		

Source: our class store tally chart

PART A: ROW AND COLUMN TOTALS

- 1. Monday's row total is _____.
- 2. Wednesday's row total is _____.
- 3. Friday's row total is _____.
- 4. The sticker column total is _____.

PART B: TWO QUESTIONS AT ONCE

- 5. How many pencils were bought across all three days?

SHOW YOUR WORK

Answer: _____

6. How many things were bought altogether that week?

SHOW YOUR WORK

Answer: _____

7. On which day were more pencils bought than stickers, and by how many?

SHOW YOUR WORK

Answer: _____

PART C: WHY TWO WAYS?

8. Why does this data need a two-way table instead of one list?

- (A) Because every purchase has both a day and a kind
(B) Because there are more than two days (C) Because tally marks are hard to count

9. On a graph with one square for each purchase, the sticker bar would be:

- (A) 14 squares (B) 3 squares (C) 30 squares

PART D: GRAPH THE TOTALS

10. Draw a bar graph in the frame showing the sticker total and the pencil total, one row for each item and one square for each purchase. Add a title, label each row, and write where the numbers came from.

TITLE _____

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WHERE THE NUMBERS CAME FROM _____

PART E: COLLECT YOUR OWN

11. Choose two things about your class that go together, such as which item someone bought and which day they bought it. Write the question you would ask, draw the two-way tally table you would use, and collect the answers from five classmates with tally marks.

SHOW YOUR WORK

PART F: ORGANIZE IT YOURSELF

12. The list below shows every purchase, day by day. Draw one tally mark for each purchase in the right box of the tally table, then write each row total.

What Was Bought Each Day

Day	Purchases, in order
Monday	sticker, sticker, pencil
Wednesday	pencil, pencil, sticker
Friday	sticker, pencil, pencil, sticker

Source: we watched and recorded them

Our Tally Table

Day	Stickers	Pencils	Row total
Monday			
Wednesday			
Friday			

A Two-Way Tally Table

ANSWER KEY

1. 10
2. 10
3. 10
4. 14
5. 16 pencils.
6. 30 things.
7. Wednesday, by 4.
8. A) Because every purchase has both a day and a kind
9. A) 14 squares
10. Two rows, 14 squares for stickers and 16 for pencils, one square per purchase, each row labelled, a title such as "What the Class Bought This Week", and a source line saying the numbers came from the class tally table.
11. Answers will vary and must name two things, not one. The table should put one of them down the side and the other across the top, with a box for every combination, and five tally marks in total. A question such as "which reward did you buy, and was it before or after payday" works; "what did you buy" on its own does not, because it only holds one piece of information.
12. Monday: 2 stickers and 1 pencil, a row total of 3. Wednesday: 1 sticker and 2 pencils, a row total of 3. Friday: 2 stickers and 2 pencils, a row total of 4.

TEACHER NOTES

The grade-level expectation: two pieces of information held at once in a two-way tally table, counted from its tally marks and then displayed one-to-one. Part B question 2 can be checked two ways, by adding the three row totals or the two column totals, and both give 30, which is worth pointing out.