

Unit 3: Two-Variable Statistics

CONCEPT

Name: _____ Date: _____

Solve each problem. Write your answer on the line—a number, fraction, or coordinate pair as asked.

1. A two-way table shows students by grade and whether they walk to school. 8 students walk, 12 students do not walk. How many students are there in total?

Answer: _____

3. A two-way table shows 10 boys and 14 girls. Of those, 6 boys and 9 girls play soccer. How many students play soccer in total?

Answer: _____

5. In a two-way table, 4 out of 20 students chose pizza. Write the fraction of students who chose pizza in simplest form.

Answer: _____

7. A line of best fit has the equation $y = 2x + 1$. Find y when $x = 4$.

Answer: _____

9. A line of best fit is $y = x + 6$. Find y when $x = 0$ (the y -intercept).

Answer: _____

11. A two-way table row total is 30. If 18 of them are 'yes', how many are 'no'?

Answer: _____

2. In a two-way table, a row shows: Dogs = 7, Cats = 5, Fish = 3. What is the total for that row?

Answer: _____

4. A survey of 25 people found that 10 like tea. The rest like coffee. How many people like coffee?

Answer: _____

6. A scatter plot has the point where $x = 3$ and $y = 8$. Write this point as a coordinate pair (x, y) .

Answer: _____

8. A line of best fit has the equation $y = 3x - 2$. Find y when $x = 5$.

Answer: _____

10. As study hours go up, test scores go up. Is this a positive or negative association? Answer 'positive' or 'negative'.

Answer: _____

12. A line of best fit $y = 5x$ predicts sales. Find y when $x = 6$.

Answer: _____