



# Probability and Data

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Multiple Choice

Circle the best answer for each question.

1. On a line plot, three Xs sit above 4 inches.

What does this mean?

- A) Three measurements equal 4 inches
- B) Four measurements equal 3 inches
- C) Three measurements equal 7 inches
- D) One measurement equals 4 inches

2. Which is a leading survey question rather than a neutral one?

- A) What is your favorite sport?
- B) Don't you agree soccer is the best sport?
- C) Which sport do you play most?
- D) How many hours do you play sports?

3. A bar graph shows 18 cats, 12 dogs, 6 birds.

How many more cats than birds?

- A) 6
- B) 18
- C) 12
- D) 24

4. Which sample best represents all 4th graders at a school?

- A) Only students in one club
- B) Only kids who walk to school
- C) Only students with high grades
- D) A random mix from every 4th grade class

## Part B: Fill in the Blank

Write the correct answer on each line.

1. If a line plot shows 4 Xs at 5 cm, the total measurements at 5 cm is \_\_\_\_\_.
2. A survey with biased wording is called a \_\_\_\_\_ question.
3. A bar graph shows 25 red, 15 blue. The total is \_\_\_\_\_.
4. If 30 students were asked and 12 chose pizza, the fraction is 12 out of \_\_\_\_\_.
5. A sample that fairly reflects the whole group is called a \_\_\_\_\_ sample.

### Part A: Multiple Choice

Circle the best answer for each question.

1. On a line plot, three Xs sit above 4 inches.

What does this mean?

- A) Three measurements equal 4 inches
- B) Four measurements equal 3 inches
- C) Three measurements equal 7 inches
- D) One measurement equals 4 inches

2. Which is a leading survey question rather than a neutral one?

- A) What is your favorite sport?
- B) Don't you agree soccer is the best sport?
- C) Which sport do you play most?
- D) How many hours do you play sports?

3. A bar graph shows 18 cats, 12 dogs, 6 birds.

How many more cats than birds?

- A) 6
- B) 18
- C) 12
- D) 24

4. Which sample best represents all 4th graders at a school?

- A) Only students in one club
- B) Only kids who walk to school
- C) Only students with high grades
- D) A random mix from every 4th grade class

### Part B: Fill in the Blank

Write the correct answer on each line.

1. If a line plot shows 4 Xs at 5 cm, the total measurements at 5 cm is 4 .
2. A survey with biased wording is called a leading question.
3. A bar graph shows 25 red, 15 blue. The total is 40 .
4. If 30 students were asked and 12 chose pizza, the fraction is 12 out of 30 .
5. A sample that fairly reflects the whole group is called a representative sample.