

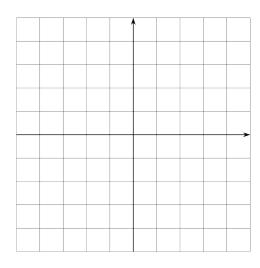
Lesson 2 Practice Problems

- 1. Sixth-grade students were asked, "What grade are you in?" Explain why this is *not* a statistical question.
- 2. Lin and her friends went out for ice cream after school. The following questions came up during their trip. Select **all** the questions that are statistical questions.
 - A. How far are we from the ice cream shop?
 - B. What is the most popular ice cream flavor this week?
 - C. What does a group of 4 people typically spend on ice cream at this shop?
 - D. Do kids usually prefer to get a cup or a cone?
 - E. How many toppings are there to choose from?
- 3. Here is a list of questions about the students and teachers at a school. Select **all** the questions that are statistical questions.
 - A. What is the most popular lunch choice?
 - B. What school do these students attend?
 - C. How many math teachers are in the school?
 - D. What is a common age for the teachers at the school?
 - E. About how many hours of sleep do students generally get on a school night?
 - F. How do students usually travel from home to school?



- 4. Here is a list of statistical questions. What data would you collect and analyze to answer each question? For numerical data, include the unit of measurement that you would use.
 - a. What is a typical height of female athletes on a team in the most recent international sporting event?
 - b. Are most adults in the school football fans?
 - c. How long do drivers generally need to wait at a red light in Washington, DC?
- 5. Describe the scale you would use on the coordinate plane to plot each set of points. What value would you assign to each unit of the grid?

a.
$$(1, -6)$$
, $(-7, -8)$, $(-3, 7)$, $(0, 9)$



c.
$$(\frac{-1}{3}, -1), (\frac{2}{3}, -1\frac{1}{3}), (\frac{-4}{3}, \frac{2}{3}), (\frac{1}{6}, 0)$$

(From Unit 7, Lesson 13.)



- 6. Noah's water bottle contains more than 1 quart of water but less than $1\frac{1}{2}$ quarts. Let w be the amount of water in Noah's bottle, in quarts. Select **all** the true statements.
 - A. w could be $\frac{3}{4}$.
 - B. w could be 1.
 - C. w > 1
 - D. w could be $\frac{4}{3}$.
 - E. w could be $\frac{5}{4}$.
 - F. w could be $\frac{5}{3}$.
 - G. w > 1.5

(From Unit 7, Lesson 9.)

- 7. Order these numbers from least to greatest:
 - |-17|
- |-18|
- -18
- [19]
- 20

(From Unit 7, Lesson 7.)