## Mixed Practice 2

1. Choose the fraction that is equivalent to 0.60 .
A. $\frac{6}{10}$
B. $\frac{6}{100}$
C. $\frac{60}{10}$
D. $\frac{1}{6}$
2. Consider the expression $35.67 \div 8.7$.
a. Estimate the quotient.
b. Use the standard algorithm to find the quotient.
3. Pedro works at a store. In one month, the store sells 288 mechanical pencils for $\$ 184.32$. The price of the mechanical pencils is proportional to the number of pencils purchased. What is the constant of proportionality?

For problems 4-9, complete the comparison by using $<,>$, or $=$.
4. $\frac{3}{8} \bigcirc \frac{5}{16}$
5. $-8 \frac{2}{3} \bigcirc-3 \frac{1}{4}$
6. 5.43

$|-6.2|$
7. $|-3.21|$

3.21
8. $5 \frac{1}{4} \bigcirc$
|5.4|
9. 2.4

10. For each word phrase in the table, write an inequality and graph the solution set on the number line.

| Word Phrase | Inequality | Number Line |
| :---: | :---: | :---: |
| $x$ is less than 20. |  |  |
| $b$ is more than 5. |  |  |
| $z$ is at least 15. |  |  |

11. One-half cup of water fills $\frac{3}{8}$ of a container. Which of the following expressions represents how many cups of water will fill the whole container? Choose all that apply.
A. $\frac{1}{2} \div \frac{3}{8}$
B. $\frac{3}{8} \div \frac{1}{2}$
C. $\frac{3}{8} \cdot \frac{1}{2}$
D. $\frac{1}{2} \cdot \frac{8}{3}$
E. $\frac{2}{1} \cdot \frac{3}{8}$
F. $\frac{2}{1} \cdot \frac{8}{3}$
12. Three different amounts of pizza dough are made by using the same recipe. The table shows the ratio of the number of cups of flour to the number of teaspoons of yeast.

| Flour <br> (cups) | Yeast <br> (teaspoons) |
| :---: | :---: |
| $1 \frac{1}{2}$ | $\frac{3}{4}$ |
| $2 \frac{1}{2}$ | $1 \frac{1}{4}$ |
| 3 | $1 \frac{1}{2}$ |

Dylan uses 1 teaspoon of yeast to make his pizza dough by using the same recipe. At this rate, how many cups of flour does Dylan need? Explain your reasoning.
13. Which of the following is a statistical question? Choose all that apply.
A. How many miles do sixth-grade students travel to school each day?
B. What is the height of the tallest sixth-grade student at my school today?
C. How many times a week do sixth-grade students eat dessert?
D. How many pushups can sixth-grade students complete without stopping?
E. What is the name of my sixth-grade math teacher?
14. Use the histogram to find the number of patients who visited Dr. Sharma's office on Monday. Patients Who Visited Dr. Sharma's Office on Monday


