Activity 1

Select the inequality that best represents the word statement.

1. Betty is 13. She is older than Jim. Use the variable j in an inequality that represents Jim's age.
   (a) $j > 13$ **(b)** $j < 13$ **(c)** $13 < j$

2. Trent scored more points than Heath. Heath scored 12 points. Use the variable t in an inequality that represents the number of points Trent scored.
   (a) $12 > t$ **(b)** $12 < t$ **(c)** $t < 12$

3. The manager earns more money than the clerks at the store. The manager makes \$600 a week. Use the variable c in an inequality that represents the clerk's pay.
   (a) $c > 600$ **(b)** $c < 600$ **(c)** $c \geq 600$

4. Everyone in the class scored lower on the test than Micah. Micah scored 95. Use the variable x in an inequality that represents the score of any other person in the class.
   (a) $x \leq 95$ **(b)** $x > 95$ **(c)** $x < 95$

Activity 2

Select the word statement that best fits the inequality.

1. $b > 57$, where b is Mr. Beardsley's age.
   (a) Mr. Beardsley is 57 years old.
   (b) Mr. Beardsley is younger than 57.
   (c) Mr. Beardsley is older than 57.

2. $m < 85$, where m is Marty's score on the quiz.
   (a) Marty's score is 85.
   (b) Marty's score is lower than 85.
   (c) Marty's score is higher than 85.

3. $t > 10$, where t is how many minutes it takes Tim to run a mile.
   (a) It takes Tim more than 10 minutes to run a mile.
   (b) Tim runs a mile in 10 minutes or less.
   (c) Tim can run the mile in less than 10 minutes.

Homework

Activity 3

Solve the rate problems by completing the proportions.

1. It took Mariah 3 hours to read 240 pages. How many pages can she read in 1 hour at the same rate?

$\dfrac{\text{Hours}}{\text{Pages}}$ $\dfrac{3}{240} = \dfrac{1}{x}$

2. It takes Flo's florists 12 hours to make 6 arrangements of flowers. At that rate, how long does it take them to make just one arrangement of flowers?

$\dfrac{\text{Arrangements of Flowers}}{\text{Hours}}$ $\dfrac{6}{12} = \dfrac{1}{y}$

3. It takes Michael 6 hours to drive 300 miles. At that rate, how far has he driven after 3 hours?

$\dfrac{\text{Miles}}{\text{Hours}}$ $\dfrac{300}{6} = \dfrac{z}{3}$

Activity 4 • Distributed Practice

Solve.

1. $\dfrac{4}{5} \cdot \dfrac{1}{2} = a$

2. $8 + b = 29$

3. $17.2 + 13.8 = c$

4. $72 \div d = 9$

5. $\dfrac{3}{8} + \dfrac{4}{6} = e$

6. $21 - 19 = f$

7. $42.7 \div 7 = g$

8. $47 \cdot h = 94$

9. $38.5 - 16.7 = j$