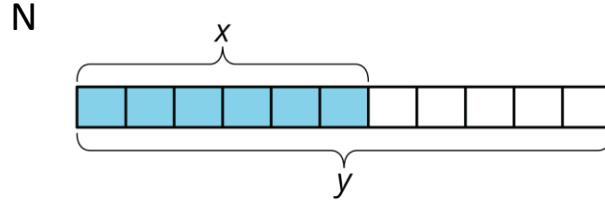
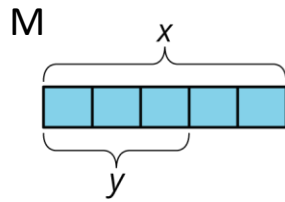


A. Match each description with a diagram. Then match each description with an equation if possible.



Descriptions:

An increase by  $\frac{2}{3}$

An increase by  $\frac{5}{6}$

A decrease by  $\frac{2}{5}$

A decrease by  $\frac{5}{11}$

Equations:

$$y = \frac{11}{6}x$$

$$y = \frac{5}{3}x$$

$$y = 0.6x$$

$$y = 0.4x$$

B. Draw a diagram for one of the unmatched equations.

2. At the beginning of the month, there were 80 ounces of peanut butter in the pantry. Since then, the family ate 0.3 of the peanut butter. How many ounces of peanut butter are in the pantry now?

- a.  $0.7 \cdot 80$
- b.  $0.3 \cdot 80$
- c.  $80 - 0.3$
- d.  $(1 + 0.3) \cdot 80$

3. If  $x$  represents a positive number, select **all** expressions whose value is greater than  $x$ .

a.  $\left(1 - \frac{1}{4}\right)x$

b.  $\left(1 + \frac{1}{4}\right)x$

c.  $\frac{7}{8}x$

d.  $\frac{9}{8}x$

4. A person's resting heart rate is typically between 60 and 100 beats per minute. Noah looks at his watch, and counts 8 heartbeats in 10 seconds.

A. Is his heart rate typical? Explain how you know.

B. Write an equation for  $h$ , the number of times Noah's heart beats (at this rate) in  $m$  minutes. (from Unit 2, Lesson 6)