

5. For each story, write an equation that describes the relationship between the two quantities.

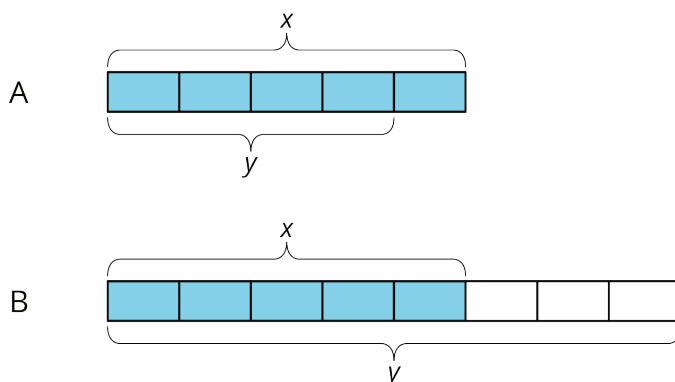
a. Diego collected x kg of recycling. Lin collected $\frac{2}{5}$ more than that.

b. Lin biked x km. Diego biked $\frac{3}{10}$ less than that.

c. Diego read for x minutes. Lin read $\frac{4}{7}$ of that.

(From Unit 4, Lesson 4.)

6. For each diagram, decide if y is an increase or a decrease of x . Then determine the percentage.



(From Unit 4, Lesson 12.)

7. Lin is making a window covering for a window that has the shape of a half circle on top of a square of side length 3 feet. How much fabric does she need?

(From Unit 3, Lesson 10.)