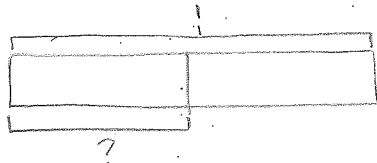


Lesson 13: Writing Division Expressions

Classwork

Example 1

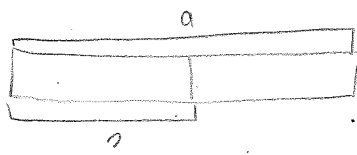
Write an expression showing $1 \div 2$ without the use of the division symbol.



What can we determine from the model? $1 \div 2$ is the same as $\frac{1}{2}$.

Example 2

Write an expression showing $a \div 2$ without the use of the division symbol.



What can we determine from the model? $a \div 2$ is the same as $\frac{a}{2}$

When we write division expressions using the division symbol, we represent dividend \div divisor.

How would this look when we write division expressions using a fraction?

$\frac{\text{dividend}}{\text{divisor}}$

Example 3

- a. Write an expression showing $a \div b$ without the use of the division symbol.

$$\frac{a}{b} \quad \begin{array}{l} \text{dividend} - \text{numerator} \\ \text{divisor} - \text{denominator} \end{array}$$

- b. Write an expression for g divided by the quantity h plus 3.

$$g \div (h+3) \quad \frac{g}{h+3}$$

- c. Write an expression for the quotient of the quantity m reduced by 3 and 5.

$$(m-3) \div 5 \quad \frac{m-3}{5}$$

Exercises

Write each expression two ways: using the division symbol and as a fraction.

a. 12 divided by 4 $12 \div 4$ and $\frac{12}{4}$

b. 3 divided by 5 $3 \div 5$ and $\frac{3}{5}$

c. a divided by 4 $a \div 4$ and $\frac{a}{4}$

d. The quotient of 6 and m $6 \div m$ and $\frac{6}{m}$

- e. Seven divided by the quantity x plus y

$$7 \div (x+y) \text{ and } \frac{7}{x+y}$$

- f. y divided by the quantity x minus 11

$$y \div (x-11) \text{ and } \frac{y}{x-11}$$

- g. The sum of the quantity h and 3 divided by 4

$$(h+3) \div 4 \text{ and } \frac{h+3}{4}$$

- h. The quotient of the quantity k minus 10 and m

$$(k-10) \div m \text{ and } \frac{k-10}{m}$$