

Lesson 13: Writing Division Expressions

Classwork

Example 1

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

$$\frac{1}{2}$$

From the model what can we determine?



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Example 2

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

From the model what can we determine?

When we write division expressions using the division symbol we represent dividend : divisor

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

$$\frac{\text{dividend}}{\text{divisor}} \text{ — like a visor}$$



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Example 3

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

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

$$g \div (h+3) = \frac{g}{h+3} \leftarrow \text{divided by}$$

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

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

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Exercises

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

1. 12 divided by 4.
2. 3 divided by 5.
3. a divided by 4.
4. The quotient of 6 and m .
5. Seven divided by the quantity x plus y .
6. y divided by the quantity x minus 11.
7. The sum of the quantity h and 3 divided by 4.
8. The quotient of the quantity k minus 10 and m .

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Lesson 14: Writing Division Expressions

Classwork

Example 1

Fill in the three remaining squares so that all the squares contain equivalent expressions.

$15 \div 3$	<div style="border: 1px solid black; padding: 5px; display: inline-block;">Equivalent Expressions</div> $\overline{) \quad \quad \quad}$ <hr style="width: 50%; margin: 0 auto;"/>

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Example 2

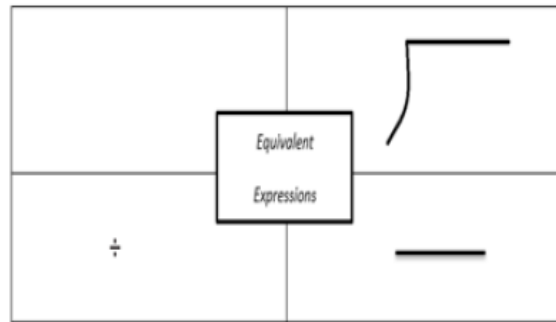
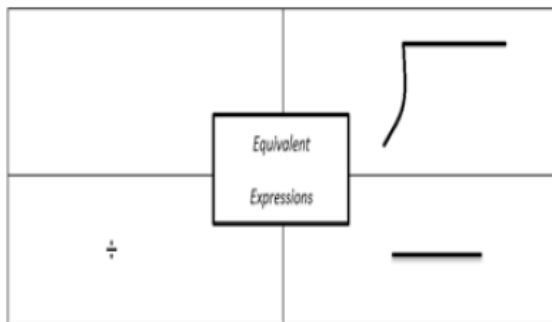
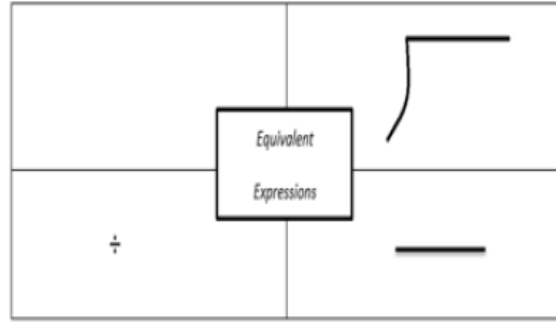
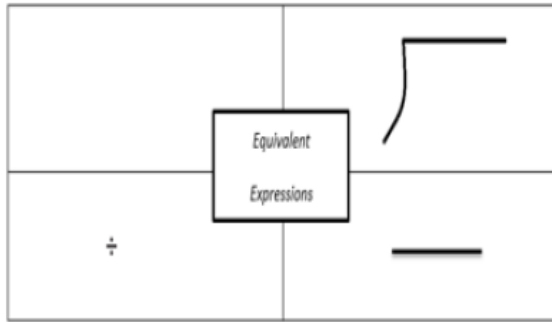
Fill in a blank copy of the four boxes using the words *dividend* and *divisor* so that it is set up for any example.

The quotient of $5 \div p$	$p \overline{) 5}$
$5 \div p$	<div style="border: 1px solid black; padding: 5px; display: inline-block;">Equivalent Expressions</div> $\frac{5}{p}$

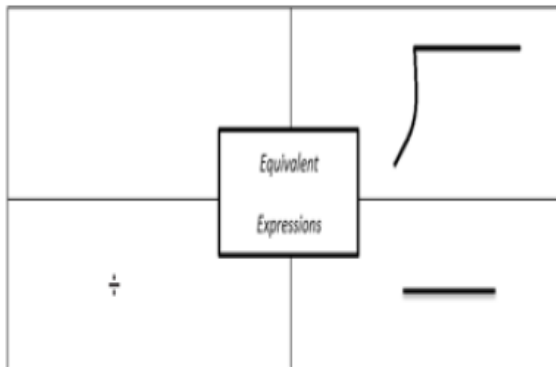
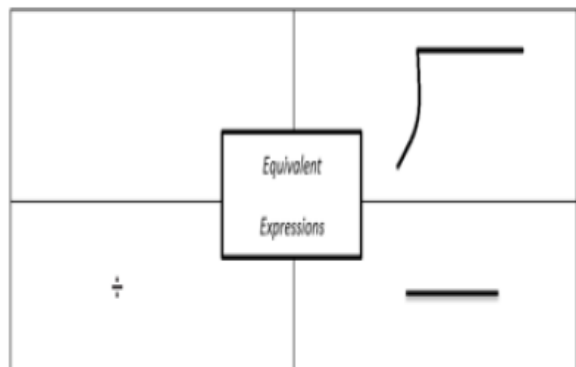
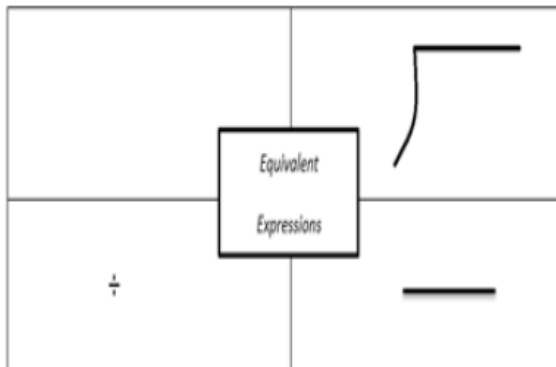
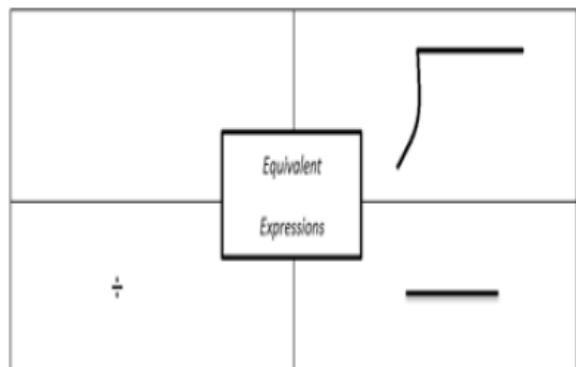
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Exercises

Complete the missing spaces in each rectangle set.



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Problem Set

Complete the missing spaces in each rectangle set.

	Equivalent Expressions	
$h \div 16$		

	Equivalent Expressions	
\div		

7 divided by x	Equivalent Expressions	
\div		

	Equivalent Expressions	$2 \sqrt{y + 13}$
\div		

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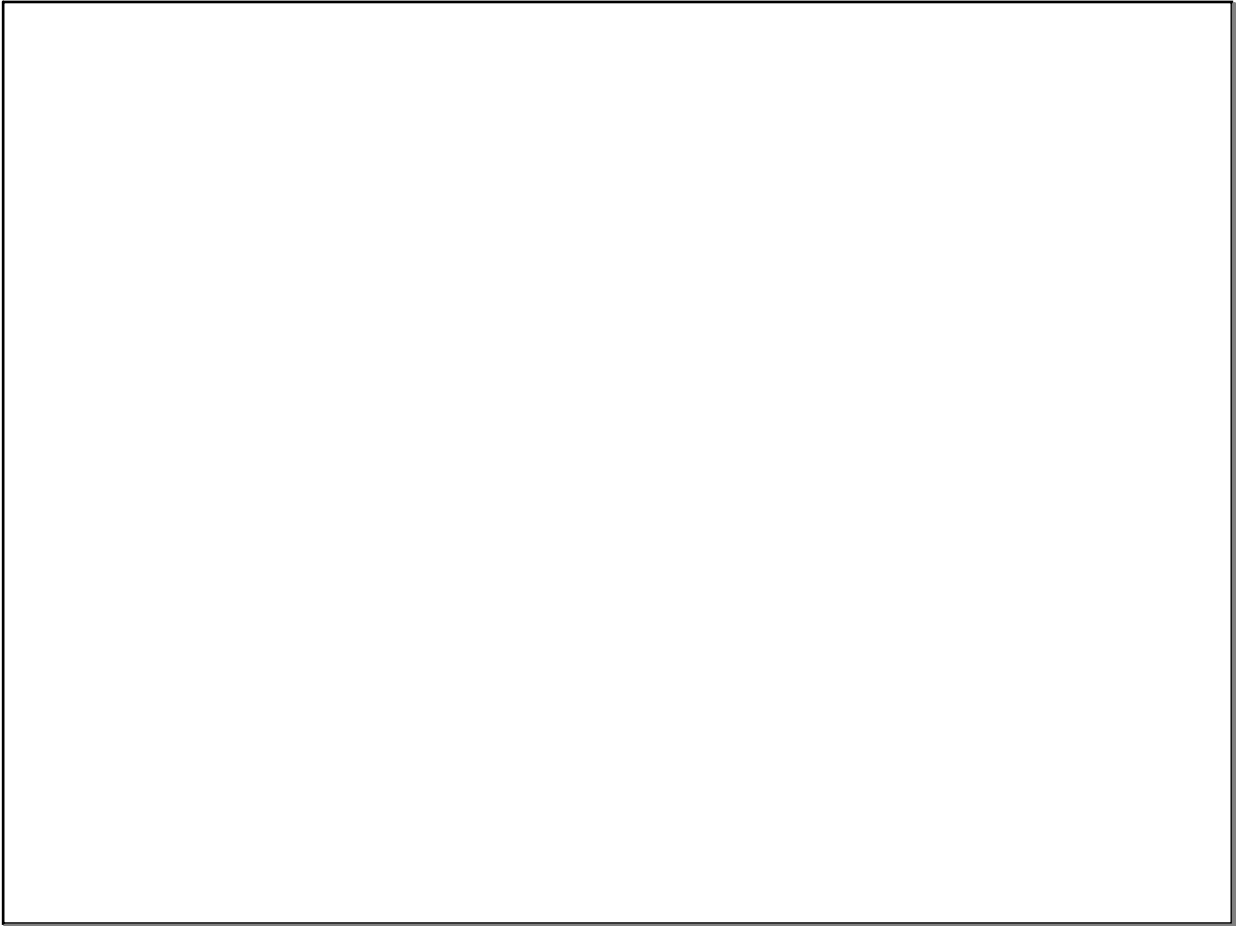
Exit Ticket

- Write the division expression in words and as a fraction.

$$(g + 12) \div h$$

- Write the following division expression using the division symbol and as a fraction: f divided by the quantity h minus 3.

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