Name _____   Date _____

Division
Skill 3 - 13E

Use Related Multiplication and Division

Example A	Example B
Solve for the variable.	Solve for the variable.
$a \times 4 = 12$	$3 \times n = 15$
First write a related division sentence.	Write a related division sentence.
A related division sentence for $a \times 4 = 12$ is	
$12 \div 4 = 3$	$15 \div 3 = 5$
The quotient is the value of the variable.	The quotient 5 is the value of n.
So, $a = 3$	$n = 5$

Try this one. Solve for the variable y.

$$y \times 3 = 18$$

First, complete this related division sentence $18 \div 3 =$ _____

The quotient that you wrote on the line above is the value of the variable y.

So, write the quotient on the line below.

$$y = \text{\_\_\_\_\_}$$

Directions: Solve for the variable by writing a related division sentence. (Write a related division sentence first and then solve the variable)

1.	2.	3.
$r \times 3 = 6$	$4 \times p = 20$	$b \times 4 = 8$
r = _____	p = _____	b = _____
first, write a related division sentence below	first, write a related division sentence below	first, write a related division sentence below
___ ÷ ___ = ___	___ ÷ ___ = ___	___ ÷ ___ = ___

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Write Related Multiplication and Division

Directions: Solve for the variable by writing a related division sentence. (Write a related division sentence first and then solve the variable)

4.	5.	6.
$n \times 5 = 10$ n = _____ write a related division sentence below ___ ÷ ___ = ___	$5 \times q = 25$ q = _____ write a related division sentence below ___ ÷ ___ = ___	$r \times 6 = 12$ r = _____ write a related division sentence below ___ ÷ ___ = ___

7.	8.	9.
$n \times 7 = 21$ n = _____ write a related division sentence below ___ ÷ ___ = ___	$8 \times p = 24$ p = _____ write a related division sentence below ___ ÷ ___ = ___	$b \times 5 = 35$ b = _____ write a related division sentence below ___ ÷ ___ = ___

10.	11.	12.
$r \times 6 = 36$ r = _____ write a related division sentence below ___ ÷ ___ = ___	$6 \times c = 42$ c = _____ write a related division sentence below ___ ÷ ___ = ___	$b \times 9 = 36$ b = _____ write a related division sentence below ___ ÷ ___ = ___

Answer Key 3-13E

1.

$$r \times 3 = 6$$

r = 2

write a related division sentence below

<u>6</u> ÷ <u>3</u> = <u style="color:red">2</u>

2.

$$4 \times p = 20$$

p = 5

write a related division sentence below

<u>20</u> ÷ <u>4</u> = <u style="color:red">5</u>

3.

$$b \times 4 = 8$$

b = 2

write a related division sentence below

<u>8</u> ÷ <u>4</u> = <u style="color:red">2</u>

4.

$$n \times 5 = 10$$

n = 2

write a related division sentence below

<u>10</u> ÷ <u>5</u> = <u style="color:red">2</u>

5.

$$5 \times q = 25$$

q = 5

write a related division sentence below

<u>25</u> ÷ <u>5</u> = <u style="color:red">5</u>

6.

$$r \times 6 = 12$$

r = 2

write a related division sentence below

<u>12</u> ÷ <u>6</u> = <u style="color:red">2</u>

7.

$$n \times 7 = 21$$

n = 3

write a related division sentence below

<u>21</u> ÷ <u>7</u> = <u style="color:red">3</u>

8.

$$8 \times p = 24$$

p = 3

write a related division sentence below

<u>24</u> ÷ <u>8</u> = <u style="color:red">3</u>

9.

$$b \times 5 = 35$$

b = 7

write a related division sentence below

<u>35</u> ÷ <u>5</u> = <u style="color:red">7</u>

10.

$$r \times 6 = 36$$

r = 6

write a related division sentence below

<u>36</u> ÷ <u>6</u> = <u style="color:red">6</u>

11.

$$6 \times c = 42$$

c = 7

write a related division sentence below

<u>42</u> ÷ <u>6</u> = <u style="color:red">7</u>

12.

$$b \times 9 = 36$$

b = 4

write a related division sentence below

<u>36</u> ÷ <u>9</u> = <u style="color:red">4</u>