

1. Complete.

a. 6 $\times 1 = 6$

b. 0 $\div 7 = 0$

c. $8 \times$ 1 $= 8$

d. $9 \div$ 1 $= 9$

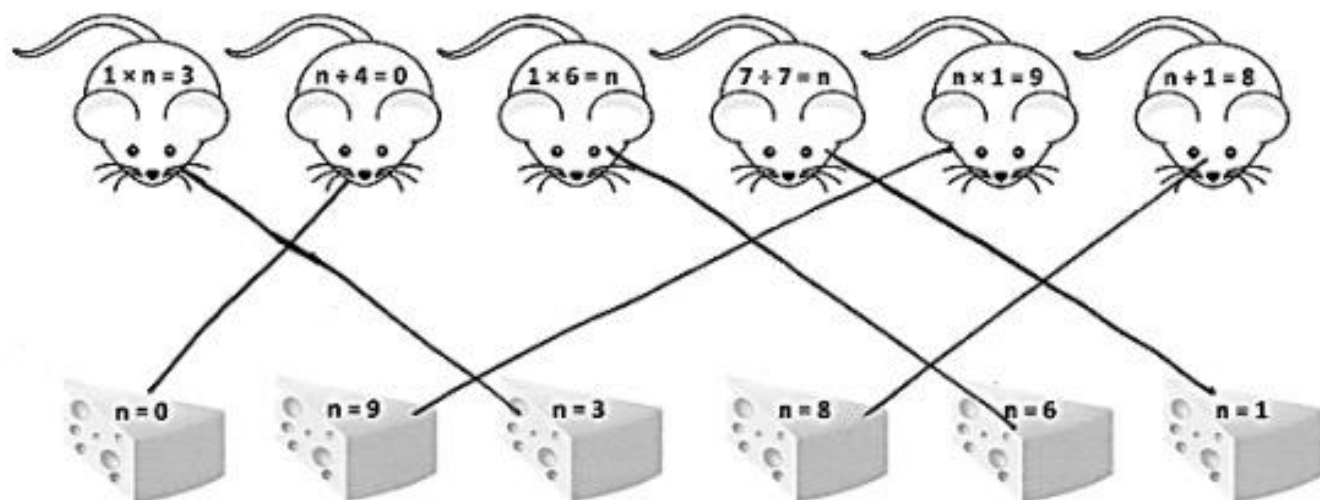
e. $0 \div 5 =$ 0

f. 5 $\times 0 = 0$

g. $4 \div$ 4 $= 1$

h. 3 $\times 1 = 3$

2. Match each equation with its solution.



3. Let n be a number. Complete the blanks below with the products.

1	2	3	4	5	6	7	8	9	...	n
$\times 1$	$\times 1$	$\times 1$	$\times 1$	$\times 1$	$\times 1$	$\times 1$	$\times 1$	$\times 1$		$\times 1$
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>		<u>n</u>

What pattern do you notice?

The products grow by 1 each time. Also, the product is the same as the factor that's not 1. Any number $\times 1 =$ that number.

4. Josie says that any number divided by 1 equals that number.

- a. Write a division equation using n to represent Josie's statement.

$$n \div 1 = n$$

- b. Use your equation from Part (a). Let $n = 6$. Write a new equation and draw a picture to show that your equation is true.

$$6 \div 1 = 6$$



- c. Write the related multiplication equation that you can use to check your division equation.

$$1 \times 6 = 6$$

5. Matt explains what he learned about dividing with zero to his little sister.

- a. What might Matt tell his sister about solving $0 \div 9$? Explain your answer.

He will tell her that it equals 0 because 0 divided by any number equals 0.

- b. What might Matt tell his sister about solving $8 \div 0$? Explain your answer.

If you think about the related multiplication fact, there is no number that makes it true, and that's the same for the division fact.

- c. What might Matt tell his sister about solving $0 \div 0$? Explain your answer.

The answer could be any number! So you can't really know what the answer is.