Name _____   Date _____

1. Complete.

   a. _____ × 1 = 6   b. _____ ÷ 7 = 0   c. 8 × _____ = 8   d. 9 ÷ _____ = 9

   e. 0 ÷ 5 = _____   f. _____ × 0 = 0   g. 4 ÷ _____ = 1   h. _____ × 1 = 3

2. Match each equation with its solution.

| 1 × n = 3 | n ÷ 4 = 0 | 1 × 6 = n | 7 ÷ 7 = n | n × 1 = 9 | n ÷ 1 = 8 |

| n = 0 | n = 9 | n = 3 | n = 8 | n = 6 | n = 1 |
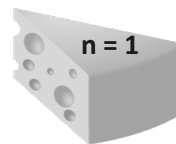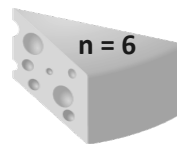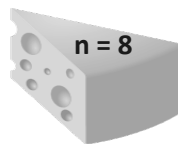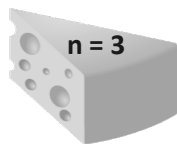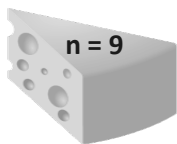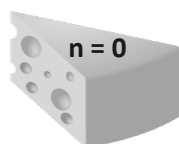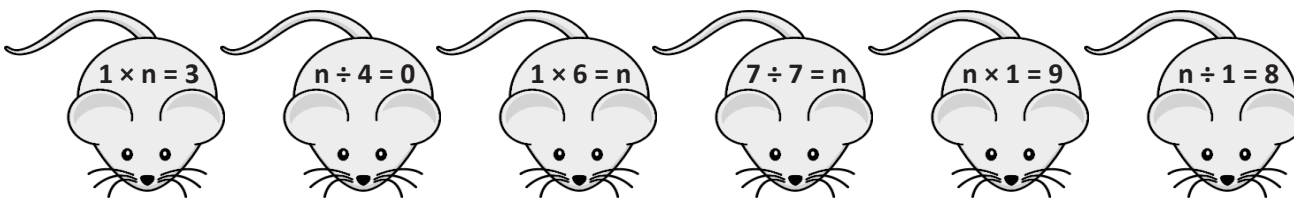
3. Let *n* be a number. Complete the blanks below with the products.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ••• | n |

| × 1 | × 1 | × 1 | × 1 | × 1 | × 1 | × 1 | × 1 | × 1 | | × 1 |

____ ____ ____ ____ ____ ____ ____ ____ ____   ____

   What pattern do you notice?

Lesson 16:   Reason about and explain arithmetic patterns using units
of 0 and 1 as they relate to multiplication and division.

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

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

    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.

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

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

    a. What might Matt tell his sister about solving 0 ÷ 9? Explain your answer.

    b. What might Matt tell his sister about solving 8 ÷ 0? Explain your answer.

    c. What might Matt tell his sister about solving 0 ÷ 0? Explain your answer.

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Lesson 16: Reason about and explain arithmetic patterns using units of 0 and 1 as they relate to multiplication and division.

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