Name _____ **Date** _____

4th Grade Math Study Guide For Lesson 8.1 (Multiplication & Division)

Objective: To show a connection/relationship between multiplication and division.

Vocabulary: Inverse Operation: Opposite operations that undo each other.

Fact family: Set of related multiplication and division equations using the same numbers.

Textbook: Pp. 140-141

Background: Consider the following…

- Fact families have four different equations, two for each operation, except when two numbers are alike, giving only two equations.

  3 x 6 or 6 x 3 and 18 ÷ 3 or 18 ÷ 6 (four fact families); 10 x 10 or 5 ÷ 5 are examples of two numbers that are alike

- Interchange the two factors in multiplication to form another equation, but interchange the divisor and quotient in division (see example above).

- Division, the inverse (opposite) of multiplication, breaks the product apart, in two different ways, with the factors becoming divisor and quotient

Practice: SEE ME after you have completed the Practice problems below.

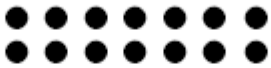
Circle equal groups to show the division. Complete the division equation.

1. $3 \times 6 = 18$

   $18 \div 6 =$ _____

2. $7 \times 2 = 14$

   $14 \div 2 =$ _____

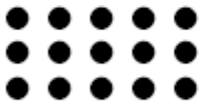


3. $4 \times 5 = 20$

   $20 \div 5 =$ _____

Write the fact family by writing two multiplication equations and two division equations which are shown by these models.

4.



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5.

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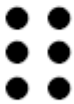
6.



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Assignment: P. 141 #2-20 (evens); #21-25 (all)