Name _____

Vocabulary Cards Topic 7
Definitions

Identity (One) Property of Multiplication

The product of any number and 1 is that number.
Example: $8 \times 1 = 8$

multiples

The product of a number and any other whole number.
Example: 0, 5, 10, 15, 20 are some multiples of 5.

Zero Property of Multiplication

The product of any number and zero is zero.
Example: $4 \times 0 = 0$

Name _____

Multiplication Facts: Using Patterns

Dear Family,

Your child is learning to multiply using 0, 1, 2, 5, 9, 10, 11, and 12 as factors. Help him or her learn these multiplication facts by using patterns.

Skip counting patterns can help your child with multiplication facts using 2, 5, or 10 as factors. For example, to find 2×7 or 7×2, skip count by 2s seven times.

2, 4, 6, 8, 10, 12, 14 $\quad 7 \times 2 = 14$

Some patterns are more easily seen by looking at a multiplication table or writing number sentences. For example, to find 11×6 or 6×11, you can find 11×1, 11×2, 11×3, etc. and use the pattern to find 11×6.

$11 \times 1 = 11$
$11 \times 2 = 22$
$11 \times 3 = 33$
$11 \times 6 = 66$

The pattern is that when you multiply a number by 11, the product has that number of tens and ones.

The product of 11×6 will have 6 tens and 6 ones.

Make or buy a set of multiplication flash cards, and try this game with your child.

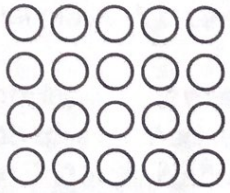
_____

Penny Patterns

Materials Cards with multiplication problems where 0, 1, 2, 5, 9, 10, 11, and 12 are factors, 50 pennies for each player

Step 1 Mix the multiplication cards and place them face down.

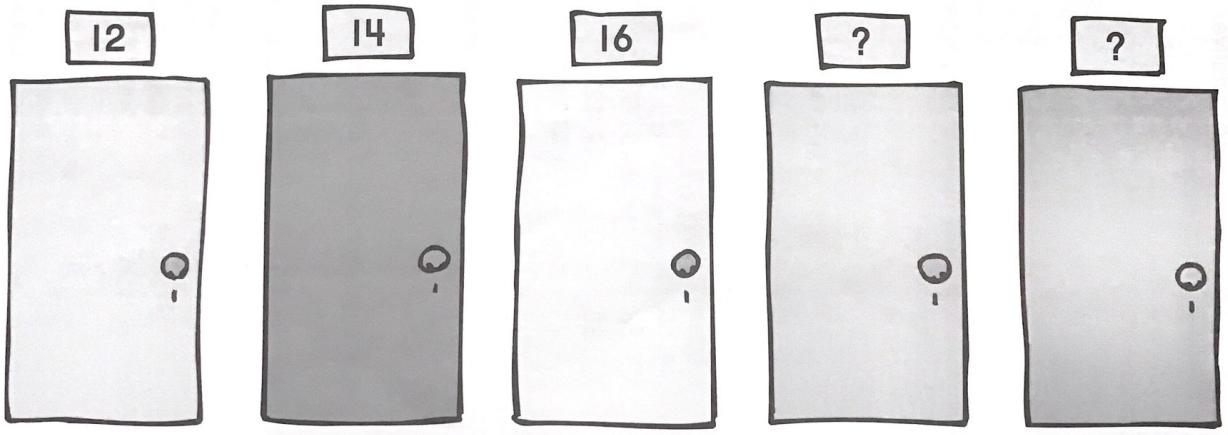
Step 2 Player 1 turns over a card without Player 2 seeing it. Player 1 then uses pennies to show the multiplication problem. For example, if the problem is 4×5, Player 1 places the pennies in 4 groups of 5 pennies each:



Step 3 Player 2 looks at the penny pattern and says what multiplication sentence is on the card and gives the answer. In the example above, the order of the factors is correct with either factor first (4×5 or 5×4).

Problem of the Day 7-1

Describe the pattern for the room numbers. Tell what the next two room numbers should be.



Name _____

Interactive Learning Recording Sheet 11

2 and 5 as Factors

Facts Tables

2s Facts	
If I Know	**Then I Know**
0 × ___ = ___	___ × 0 = ___
1 × ___ = ___	___ × 1 = ___
2 × ___ = ___	___ × 2 = ___
3 × ___ = ___	___ × 3 = ___
4 × ___ = ___	___ × 4 = ___
5 × ___ = ___	___ × 5 = ___
6 × ___ = ___	___ × 6 = ___
7 × ___ = ___	___ × 7 = ___
8 × ___ = ___	___ × 8 = ___
9 × ___ = ___	___ × 9 = ___

5s Facts	
If I Know	**Then I Know**
0 × ___ = ___	___ × 0 = ___
1 × ___ = ___	___ × 1 = ___
2 × ___ = ___	___ × 2 = ___
3 × ___ = ___	___ × 3 = ___
4 × ___ = ___	___ × 4 = ___
5 × ___ = ___	___ × 5 = ___
6 × ___ = ___	___ × 6 = ___
7 × ___ = ___	___ × 7 = ___
8 × ___ = ___	___ × 8 = ___
9 × ___ = ___	___ × 9 = ___