

Unit 4: Patterns for 0, 1, 2, 5, and 10 Study Guide

Name _____

Unit 4 Skills:

- Multiples of 2 are always even numbers (numbers end in 0, 2, 4, 6, 8)
- Any number multiplied by 1 stays the same (identity property)
- Any number multiplied by 0 is 0 (zero property)
- Multiples of 5 always end in 0 or 5
- Multiples of 10 always end in 0

Sarah ate twice as many strawberries as Jake. If Jake ate 6 strawberries, how many did Sarah eat?	Max's plant grows 5 inches every month. How many inches will it grow in 6 months?
Rachel says that 1 group of 0 equals 1. Zachary says it equals 0. Who is correct? A. Rachel is correct because $1 \times 0 = 1$ B. Rachel is correct because any number times 1 stays the same C. Zachary is correct because any number times 0 equals 0 D. Zachary is incorrect because $1 \times 0 = 1$	Caroline and Amanda counted by twos while putting candy in a bag. If they continue counting by two, which number shows how much candy they could use? A. 19 B. 46 C. 37 D. 13
Payton and her four sisters got tickets at the fair. They each got the same number of tickets. They had 50 tickets altogether. Choose the equation that shows how to find the number of tickets each one got. A. $4 \times ? = 50$ B. $50 = ? \times 5$ C. $4 \times 50 = ?$ D. $4 + ? = 50$	Kendall is counting her dimes and nickels. She has 6 dimes and 5 nickels. Choose the equation that shows how much money she has in her piggy bank. A. 50 cents + 30 cents = 90 cents B. 60 cents + 20 cents = 80 cents C. 50 cents + 60 cents = 110 cents D. 60 cents + 25 cents = 85 cents

Match the multiplication rule with the correct letter	
x0_____	A. The multiples of this number will end in 0 or 5
x1_____	B. The multiples of this number are called doubles
x2_____	C. Any number multiplied by this number equals 0
x5_____	D. When you multiply by this number, every multiple will end in 0
x10_____	E. Any factor multiplied by this number will stay the same

Use patterns of numbers to solve each equation.			
$p \times 5 = 40$ $p = \underline{\hspace{2cm}}$	$2 \times ? = 16$ $? = \underline{\hspace{2cm}}$	$1 \times 0 = \underline{\hspace{2cm}}$	$10 \times n = 100$ $n = \underline{\hspace{2cm}}$
Finish the skip counting pattern: 2, 4, _____, 8, _____, 14, 16, 18, _____		Finish the skip counting pattern: _____, 10, 15, _____, _____, _____, _____	

Solve each equation

$4 \times 0 =$	$10 \times 9 =$	$5 \times 6 =$	$1 \times 10 =$	$0 \times 1 =$
$5 \times 8 =$	$2 \times 10 =$	$1 \times 3 =$	$10 \times 10 =$	$2 \times 8 =$
$0 \times 0 =$	$5 \times 9 =$	$2 \times 4 =$	$10 \times 0 =$	$1 \times 8 =$