

Subject: <u>GoMath!</u> (2 Periods)	Date:
Lesson 4.8	Topic: Multiply with 8
Period 1 - Lesson Objective: Students will use doubles, a number line, or the Associative Property of Multiplication to multiply with the factor 8.	Essential Question: What strategies can you use to multiply with 8?
Common Core Standards: <u>3.OA.C.7:</u> Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all the products of two one-digit numbers.	Key Terms to Understand: Pattern, multiple, factor, product, associative property
	Review and Link with Prior Knowledge: <ol style="list-style-type: none"> 1) Go over HW 2) Review multiplication fluency using flashcards.
<p style="text-align: center;">Strategies for today's lesson:</p> <p>This lesson presents several ways to multiply with 8—making jumps of 8 on a number line, and doubling the product of 4 and the other factor. In this lesson, students also apply the Associative Property of Multiplication, complete function tables, and solve and write word problems to deepen their understanding of multiplication and increase their facility with basic facts. The goal is to make multiplying by 8 flexible and fast!</p>	
Lesson Plan Procedures: Explain that students will use patterns and strategies to help them learn and remember multiplication facts. <u>Unlock the Problem:</u> One Way: <ul style="list-style-type: none"> • Model/Guide them through filling in the blue box and completing the problem. Ask: Why can you double a 4s fact to find the product for a <u>gg</u> 8s fact? Possible answer: doubling 4 gives me 8, so doubling a 4s fact gives me <u>gg</u> 8s fact. Think: The factor 8 is an even number. $4 + 4 = 8$ Another Way: Another method is to use a number line. <u>Be sure to count the spaces between the tick marks, not the tick marks.</u> Ask: <ul style="list-style-type: none"> • What numbers do you land on when you make 5 jumps of 8 on the number line? (8, 16, 24, 32, 40) • What numbers would you land on if you used the Commutative Property, or 8×5? (5, 10, 15, 20, 25, 30, 35, 40) Help students understand that there is more than one way to find a product using doubles when both factors are even numbers.	

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























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