Multiplying Integers

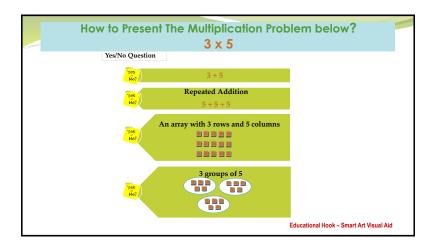
Unit Topic : Multiplying and Dividing Rational Numbers

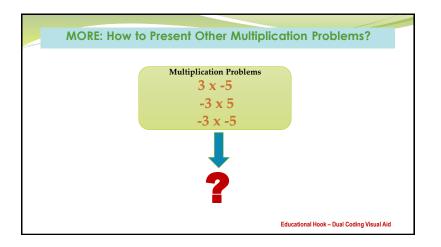
Grade level : 7th

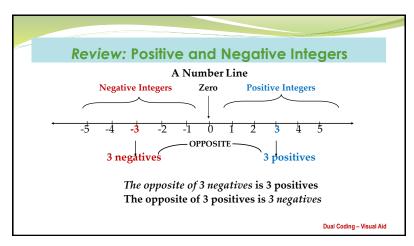
Presenter : Dung Le

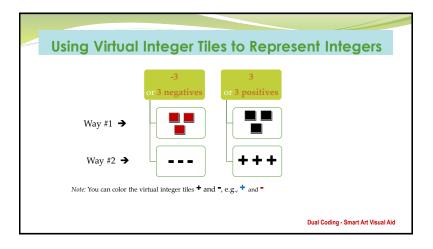
Lecture Objectives STUDENTS ARE ABLE TO: REPRESENT A MULTIPLICATION PROBLEM OF THE FORM P x Q, WHERE P OR Q IS A POSITIVE OR NEGATIVE INTEGER, BY WRITING A PHRASE AND DRAWING AN INTEGER TILES PICTURE TO REPRESENT THE PROBLEM. CALCULATE THE PRODUCT OF THE MULTIPLICATION PROBLEM USING INTEGER TILES. RECOGNIZE THE SIGN OF THE PRODUCT OF TWO INTEGERS WHEN THE TWO INTEGERS HAVE THE SAME OR DIFFERENT SIGNS.

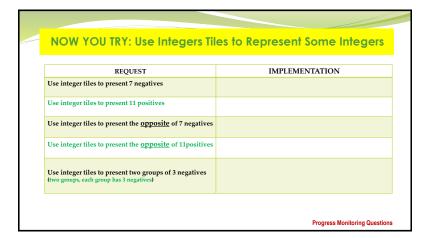
CCSS.MATH.CONTENT.7.NS.A.2 APPLY AND EXTEND PREVIOUS UNDERSTANDINGS OF MULTIPLICATION AND DIVISION AND OF FRACTIONS TO MULTIPLY AND DIVIDE RATIONAL NUMBERS. CCSS.MATH.CONTENT.7.NS.A.2.A UNDERSTAND THAT MULTIPLICATION IS EXTENDED FROM FRACTIONS TO RATIONAL NUMBERS BY REQUIRING THAT OPERATIONS CONTINUE TO SATISFY THE PROPERTIES OF OPERATIONS, PARTICULARLY THE DISTRIBUTIVE PROPERTY, LEADING TO PRODUCTS SUCH AS (-1)(-1) = 1 AND THE RULES FOR MULTIPLYING SIGNED NUMBERS. INTERPRET PRODUCTS OF RATIONAL NUMBERS BY DESCRIBING REAL-WORLD CONTEXTS. CCSS.MATH.CONTENT.7.NS.A.2.C APPLY PROPERTIES OF OPERATIONS AS STRATEGIES TO MULTIPLY AND DIVIDE RATIONAL NUMBERS.

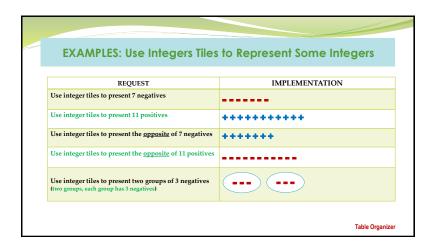


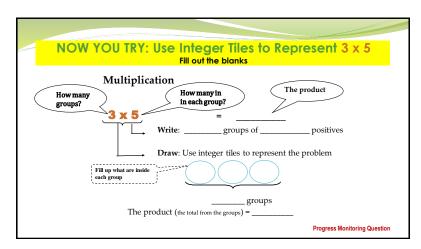


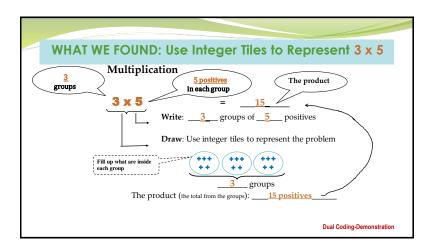


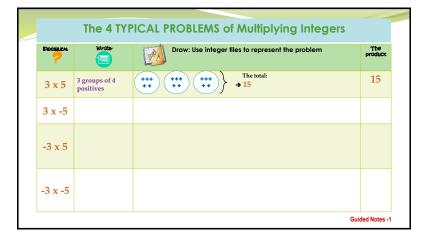




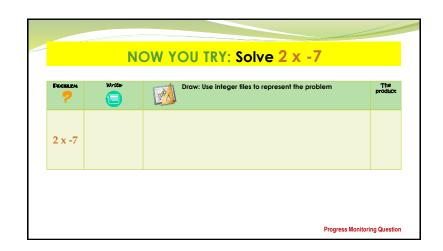


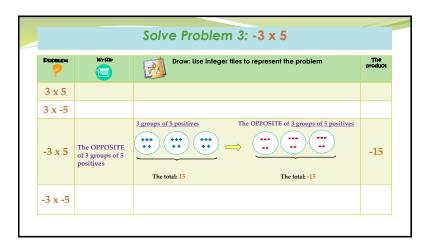


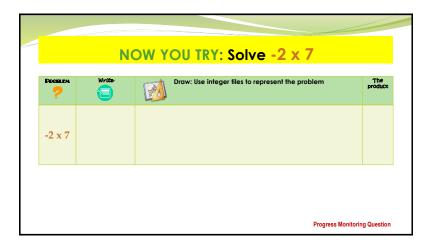


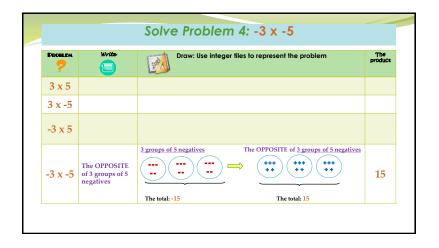


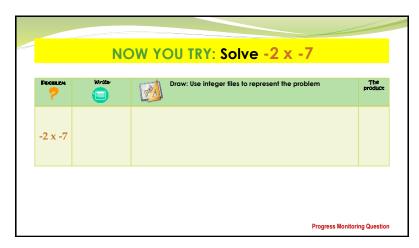
	Solve Problem 2: 3 x -5						
	PROBLEM	Write	Draw: Use integer tiles to represent the problem	The produce			
ľ	3 x 5						
	3 x -5	3 groups of 5 negatives	The total: → -15	-15			
	-3 x 5						
	-3 x -5						

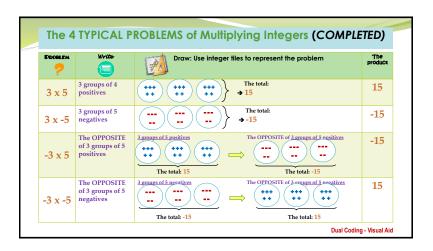


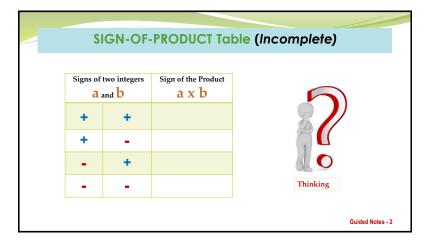


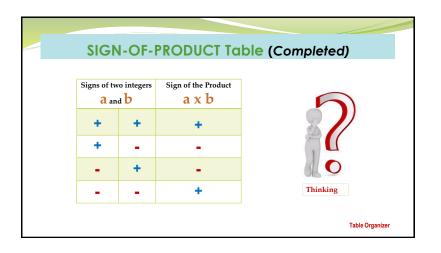












?	NOW YOU TRY: RULE	of Signs in M	ultiplication	
	m the Sign-of-Product table of multiplication?	e, what do you n	otify about the	
	here any rule of multiplicat o integers have the same sign,	•	ı build up?	
• If tw	If two integers have different signs , their product			
			Culminating Questions	

	NOW YOU TRY						
	Practice solving multiplication problems (Fill up the blanks)						
	-7 x (-8) =	4 x () = -4					
	-4 x 9 =	x -3 = 18					
	3 x (-11) =	-9 x () = 45					
	15 x 19 =	x 7 = -21					
	-5 x 4 x (-8) = 6 x (-7) x 3 = -2 x (-6) x (-3) = Culminating Activity						