

3rd Grade Unit 2: Relate Multiplication and Division (9 Weeks)

Priority: 3.OA.3, 3.OA.5, 3.MD.7

Supporting: 3.OA.6, 3.OA.7

Pre-Assessment

Real World Experience Introduction & Task 1(1 Day)

Telling Time (Ongoing)

I can tell time to the nearest minute.

I can write time to the nearest minute.

I can solve problems concerning elapsed time.

Topic 1: What is Multiplication? (4 Days)

I can relate multiplication to repeated addition.

I can illustrate multiplication by thinking about groups of objects.

I can find patterns in addition tables and multiplication tables and explain them using what I know about how numbers work.

Topic 2: What is Division? (4 Days)

I can relate division to repeated subtraction.

I can relate division to “dealing out”.

I can relate division to multiplication.

I can illustrate division with drawings or diagrams by thinking of groups of objects or number of objects in a group.

I can find the answer to a division problem by thinking of the missing factor in a multiplication problem.

Topic 3: Using Properties of Multiplication (3 Days)

I can explain the commutative property of multiplication and can use it to help solve a multiplication problem.

I can explain the associative property of multiplication and can use it to help solve a multiplication problem.

I can explain the distributive property of multiplication and can use it to help solve a multiplication problem.

Topic 4: Using Properties of Division (2 Days)

I can explain the distributive property of division and use it to help solve a division problem.

I can explain why the commutative and associative properties do not work with division and can not be used to solve division problems.

Topic 5: Using Place Value Understanding in Multiplication (2 Days)

I can quickly and easily multiply any one-digit number by 10.

I can multiply any one-digit number by a multiple of 10.

I can use the associative property and place value understanding to multiply a single digit by a multiple of 10. (example: $40 \times 3 = 4 \times 10 \times 3 = 12 \times 10 = 120$)

Real World Experience Task 2 (1 Day)

Post Assessment Part A & Reflection(1 day)

Topic 6: Understanding Area of Rectangles (2 Days)

I can distinguish area as an attribute of a plane figure.

I can identify a unit square as being a square with side lengths of one unit.

Topic 7: Use Tiling to Measure Area of Rectangles (2 Days)

I can calculate the area of a rectangle using tiling of unit squares.

I can solve real world area problems using tiling.

I can relate my knowledge of arrays to tiling the areas of a quadrilateral.

Real World Experience Task 3 (1 Day)**Topic 8: Use Side Length to Calculate Area of a Rectangle (2 Days)**

I can calculate the side length of a rectangle using unit squares.

I can calculate the area of a rectangle when given the side lengths.

Topic 9: Use Distributive Property to Calculate Area of a Rectangle – (2 Days)

I can show that finding the area of a rectangle by multiplying one side by the addends of the other side separately is the same as multiplying the one side by the sum of the addends of that other side.

I can use the distributive property as a strategy to calculate area of large rectangles.

Topic 10: Applying Multiplication Understanding (3 Days)

I can identify real world situations that require multiplication.

I can represent with drawings and/or diagrams real world situations involving multiplication.

I can use multiplication strategies and properties to solve real world situations.

Topic 11: Applying Division Understanding (4 Days)

I can identify real world situations that require division.

I can represent with drawings and/or diagrams real world situations involving division.

I can use division strategies and properties to solve real world situations.

Real World Experience Task 4 (1 Day)**Real World Experience Task 5 (1 Day)****Real World Experience Task 6 (1 Day)****Post Assessment & Reflection Part B (1 Day)****Buffer Week (5 Days)**