



Whole Class Lessons and Guided Math Groups Active Engagement and Games Intervention and Enrichment EXIT TICKETS







I Plan ~ You Teach

Helping you live your life AND be the math teacher that gets results

Are you ready for	<u>2nd Grade Math</u>	<u> 3rd Grade Math</u>
Help?	<u>Lesson Plans</u>	<u>Lesson Plans</u>
Click the links for Lesson Plans that	<u>4th Grade Math</u>	<u>5th Grade Math</u>
align with TEXAS TEKS!	<u>Lesson Plans</u>	<u>Lesson Plans</u>

T SFF YOU~

- struggling each week to write lesson plans that meet the rigor of the TEKS.
- searching endlessly for resources that will help kids learn math while being challenged and engaged.
- staying late everyday after school working on plans and creating everything from scratch.

You are exhausted from working with students all day, and still have to prep, write and create.

T SEE YOU~

SACRIFICING your time with your family

and friends



to ensure success for ALL of OUR Children.

Want to know when sales are happening? Click links to follow



Application of	Application of Multiplication and Division													
Name	I	2	3	Ч	5	6	7	8	q	10	I	12	13	14
				©iF	ohly IN	С							9	

Name _____

Application of Multiplication

and Division

LT	Statement	I	2	3	Ч	Evidence
I	I can use strategies to multiply a two-digit number by a one-digit numbermental math					
2	I can use strategies to multiply a two-digit number by a one-digit numberpartial products					
3	I can use strategies to multiply a two-digit number by a one-digit numberproperties					
4	I can use the standard algorithm, to multiply a two-digit number by a one-digit number					
5	I can determine the quotient using the relationship between multiplication and division					
6	I can determine if a number is even or odd using divisibility rules.					
7	I can solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects					
8	I can solve one-step and two-step problems involving multiplication and division within 100 using strategies based on pictorial models, including arrays, area models, and equal groups					

I	2	3	4
I have no idea how to	I can do this with	I can do this by	I can teach someone
do this.	some help.	myself	to do this.

Name _____

Application of Multiplication and Division

LT	Statement	I	2	3	Ч	Evidence
9	I can solve one-step and two-step problems involving multiplication and division within 100 using strategies based on properties of operations.					
10	I can solve one-step and two-step problems involving multiplication and division within 100 using strategies based on recall of facts.					
II	I can represent and solve one- and two- step multiplication and division problems within 100 using arrays					
12	I can represent and solve one- and two- step multiplication and division problems within 100 using strip diagrams					
13	I can represent and solve one- and two- step multiplication and division problems within 100 using equations.					
14	I can determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row.					

I	2	3	4
I have no idea how to	I can do this with	I can do this by	I can teach someone
do this.	some help.	myself	to do this.

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?						
I 3.4G	Use strategies to multiply a two-digit number by a one-digit numbermental math	 Basic facts Multiplication facts up to IO × IO Mental math Accurate computation without the aid of paper, pencil, or other tools 	Basic facts Multiplication facts up to IO × IO Mental math Accurate computation without the aid of paper, pencil, or other tools	Basic facts Multiplication facts up to 10 × 10 Mental math Accurate computation without the aid of paper, pencil, or other tools	Basic facts Multiplication facts up to 10 × 10 Mental math Accurate computation without the aid of paper, pencil, or other tools	Basic facts Multiplication facts up to 10 × 10 Mental math Accurate computation without the aid of paper, pencil, or other tools	Basic facts Multiplication facts up to 10 × 10 Mental math Accurate computation without the aid of paper, pencil, or other tools	Basic facts Multiplication facts up to IO × IO Mental math Accurate computation without the aid of paper, pencil, or other tools	 Recognize multiplication presented in a real-world problem situation Understand how to multiply a two-digit number by a one-digit 	Use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit
2 3.4G	Use strategies to multiply a two-digit number by a one-digit numberpartial products	Partial products Decomposing the factor(s) into smaller parts, multiplying the parts, and combining the intermittent products	number involving regrouping Solve a one-step problem involving multiplication	number and to multiply a two- digit number by a two-digit number. Strategies may include mental math, partial products, and						
3 3.4G	Use strategies to multiply a two-digit number by a one-digit numberproperties	 Properties of operations Commutative property of multiplication a x b = c; therefore, b x a = c Associative property of multiplication a x b x c = (a x b) × c = a x (b x c) Distributive property of multiplication a x (b + c) = (a x b) + (a x c) 		the commutative, associative, and distributive properties.						

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
Ч 3.4G	Use the standard algorithm, to multiply a two-digit number by a one-digit number	 Standard algorithm Standardized steps or routines used in computation With and without regrouping 	See LT I-3	See LT I-3
5 3.4J	Determine the quotient using the relationship between multiplication and division	 Relationship between division and an unknown factor problem Inverse relationship between multiplication and division a ÷ b can be determined by b × = a or × b = a Fact families - related number sentences using the same set of numbers a × b = c c ÷ a = b b × a = c c ÷ b = a Division problem types Partitive division Total amount known Number of groups known Size of measure of each group unknown Quotative division Total amount known Size or measure of each group known Size or measure of each group known Number of groups unknown Division involving 0 Zero divided by any number equals 0. Relationship between multiplication and division applies. O ÷ a = O because 0 × a = 0 Any number divided by 0 is undefined. Relationship between multiplication and division does not apply when dividing by 0. a ÷ 0 = ? (no possible quotient) because 2 × 0 ≠ a 	 Recognize division presented in a real-world problem situation Understand the relationship between a division fact and its related multiplication fact Represent and solve a division problem using the related multiplication fact 	

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
6 3.4I	Determine if a number is even or odd using divisibility rules.	 Whole numbers (0 - 100,000) Even number If the digit in the ones place a whole number is divisible by 2, then the whole number is divisible by 2 and therefore even. Odd number If the digit in the ones place a whole number is not divisible by 2, then the whole number is not divisible by 2, then the whole number is not divisible by 2 and therefore odd. Mathematical and real-world problems 	 Understand that a number is divisible by 2 if the number when divided by 2 has no remainder Understand that a number is not divisible by 2 if the number when divided by 2 has a remainder of 1 Understand that a number is even if the number is even if the number is divisible by 2 and odd if it is not divisible by 2 Understand that if the digit in the ones place of a whole number is even Determine if a number is even or odd using the divisibility rule of 2 	Introduce divisibility rules for 5 and 10.
7 3.4K	Solve one-step and two-step problems involving multiplication and division within 100 using strategies based on objects	 Multiplication problem types Multiplication product unknown Multiplication factor unknown Multiplication factor unknown Division problem types Partitive division Total amount known Number of groups known Size or measure of each group unknown Quotative division Total amount known Size or measure of each group unknown Size or measure of each group known Number of groups unknown Concrete objects Base-IO blocks, counters, color tiles, etc. 	 Recognize multiplication or division presented in a real-world problem situation Understand how to multiply a two-digit number by a one-digit number involving regrouping Understand how to divide a two-digit number by a one-digit Solve a one-step or two-step problem involving the four operations. 	 Represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations. Introduce the standard algorithm for division. Introduce interpreting remainders.

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
8 3.4K	Solve one-step and two-step problems involving multiplication and division within 100 using strategies based on pictorial models, including arrays, area models, and equal groups	Multiplication problem types Multiplication product unknown Multiplication factor unknown Division problem types Partitive division Pictorial models Array Area model Equal groups	 Recognize multiplication or division presented in a real-world problem situation Understand how to multiply a two-digit number by a one-digit number involving regrouping 	 Represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations. Introduce the
9 3.ЧК	Solve one-step and two-step problems involving multiplication and division within 100 using strategies based on properties of operations.	 Multiplication problem types Multiplication product unknown Multiplication factor unknown Division problem types Partitive division Quotative division Properties of Operations Commutative property of multiplication Associative property of multiplication Distributive property of multiplication 	 Understand how to divide a two-digit number by a one-digit Solve a one-step or two-step problem involving the four operations. 	standard algorithm for division. Introduce interpreting remainders.
10 3.4K	Solve one-step and two-step problems involving multiplication and division within 100 using strategies based on recall of facts.	 Recall of facts Multiplication facts up to 10 × 10 Division facts up to 100 i 10 Mathematical and real-world problem situations with multiple operations One-step and two-step problems Equation(s) to reflect solution processy INC 		15

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
॥ 3.5В	Represent and solve one- and two-step multiplication and division problems within 100 using arrays	 One-step problems Representations using arrays Relationship between quantities represented and problem situation Arrangement of a set of objects in rows and columns 	 Recognize multiplication or division presented in a real-world problem situation Understand how to interpret a strip diagram to identify the dividend, the divisor, and the 	Represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations
12 3.5B	Represent and solve one- and two-step multiplication and division problems within 100 using strip diagrams	 Representations using strip diagrams Relationship between quantities represented and problem situation Linear arrangement used to illustrate number relationships auotient in a division situation Represent a problem involving multiplication or division using a strip diagram Understand the relationship 	 divisor, and the quotient in a division situation Represent a problem involving multiplication or division using a strip diagram Understand the relationship 	wiin a letter standing for the unknown quantity.
I3 3.5B	Represent and solve one- and two-step multiplication and division problems within 100 using equations.	Equation & Expression Relationship between quantities represented and problem situation Equal sign at beginning or end Unknown in any position Proper equality representation Multi-step solutions represented with one number sentence, or equation, per step All expressions separated by equal signs must be equivalent.	 between the description of a problem situation and the symbols represented in an equation/number sentence Represent a two-step problem involving multiplication and division using an equation Understand how an array can be used to represent a multiplication situation Represent a problem involving 	
		©iPohly INC	multiplication using an array	16

Learning Target	What do we want students to learn?	How will we know if they learned it?	What will we do if they don't?	What will we do if they already know it?
Target IH 3.6C	students to learn? Determine the area of rectangles with whole number side lengths in problems using multiplication related to the number of rows times the number of unit squares in each row.	 Learned it? Concrete models Color tiles to measure square inches Centimeter cubes to measure square centimeters Pictorial models Inch grid paper to measure square inches Centimeter grid paper to measure square centimeters Centimeter grid paper to measure square centimeters Pictorial representations with grid lines to represent customary or metric square units Pictorial representations with partial grid lines to represent customary or metric square units Area determined when 	 they don't? Recognize the dimensions of a rectangle presented in a diagram Understand how to determine area of a rectangle by multiplying the number of rows times the number of square units in each row Understand the meaning of the phrase, "The rest of the model will also be divided into squares of the same size." Determine the area of a rectangle Understand the 	they already know it?
		Area determined when given a rectangle with grid lines or partial grid lines Whole unit side lengths Area determined when given the side lengths of a rectangle related to number of rows and number of unit squares in each row Whole unit side lengths ©iPohly INC	 Onderstand me meaning of the phrase "equal-size squares" Determine the areas of a set of rectangles Understand the meaning of the phrase "each square tile has a side length of l cm" 	17

Day I	Day 2	Day 3	Day 4	Day 5
Mini Lesson	Math Huddle	Mini Lesson	Mini Lesson	Game
LT IH	Mini Lesson	LT 1,2	LT 4	LT 5
Area	LT I, 3	Partial Products	Standard	Relationship
	Properties of	Area Model	Algorithm	between Division
	Multiplication			and
				Multiplication
Reteach	LT 14	LT I, 3	LT 2, 3	LT 4
Day 6	Day 7	Day 8	Day 9	Day 10
Mini Lesson	Mini Lesson	Mini Lesson	Mini Lesson	Mini Lesson
LT 5, 6	LT 7, 8, 10	LT 9, 10	LT II, 12	LT 13
Property of O	Problem Solving	Problem Solving	Problem Solving	Problem Solving
Divisibility Rule	2 Step	2 Step	Strip Diagrams	Equations
for 2				
LT 5	LT 7-10	LT 7-10	LT II-13	LT II-13

APPLICATION OF MULTIPLICATION AND DIVISION



Thank you for your download!

I hope this helps your students!



A portion of the materials contained in this publication were created with the use of 1,2,3 Math Fonts. And Math Clipart

Graphics by











Copyright © iPohly INC. All rights reserved by author. This product is to be used by the original downloader only. Copying for more than one teacher, classroom, department, school, or school system is prohibited. This product may not be distributed or displayed digitally for public view. Failure to comply is a copyright infringement and a violation of the Digital Millennium Copyright Act (DMCA). Clipart and elements found in this PDF are copyrighted and cannot be extracted and used outside of this file without permission or license. Intended for classroom and personal use ONLY.



Whole Class Lessons and Guided Math Groups Active Engagement and Games Intervention and Enrichment EXIT TICKETS