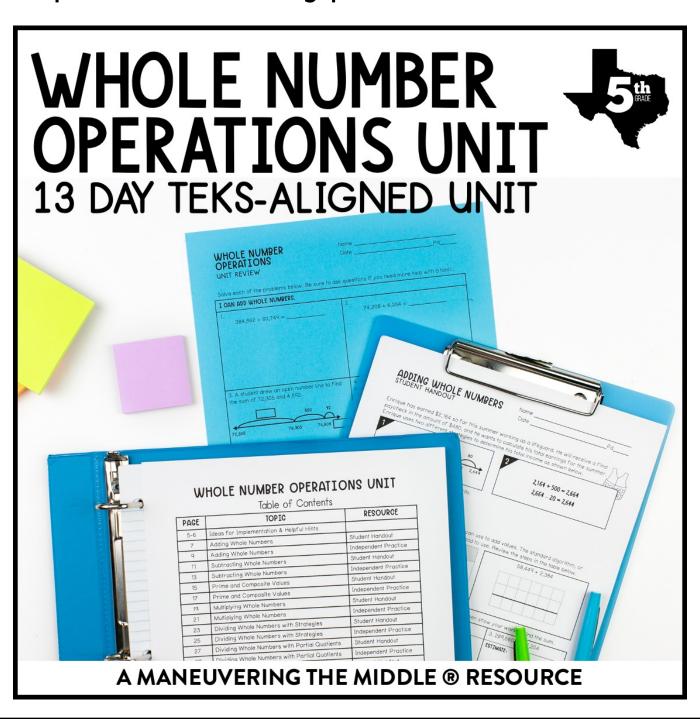
learning focus:

- add and subtract whole numbers using the standard algorithm and strategies
- multiply and divide whole numbers using the standard algorithm and strategies
- apply the order of operations to evaluate expressions including parentheses and brackets



WHOLE NUMBER OPERATIONS



a 13 day TEKS-aligned unit TEKS: 5.3A, 5.3B, 5.3C. 5.3K, 5.4A, 5.4E, 5.4F

ready-to-go, scaffolded student materials

WHOLE NUMBER OPERATIONS UNIT

Table of Contents

PAGE	TOPIC	RESOURCE			
5-6	Ideas for Implementation & Helpful Hints				
7	Adding Whole Numbers	Student Handout			
q	Adding Whole Numbers	Independent Practice			
11	Subtracting Whole Numbers	Student Handout			
13	Subtracting Whole Numbers	Independent Practice			
15	Prime and Composite Values	Student Handout			
17	Prime and Composite Values	Independent Practice			
19	Multiplying Whole Numbers	Student Handout			
21	Multiplying Whole Numbers	Independent Practice			
23	Dividing Whole Numbers with Strategies	Student Handout			
25	Dividing Whole Numbers with Strategies	Independent Practice			
27	Dividing Whole Numbers with Partial Quotients	Student Handout			
29	Dividing Whole Numbers with Partial Quotients	Independent Practice			
31	Dividing Whole Numbers with the Algorithm	Student Handout			
33	Dividing Whole Numbers with the Algorithm	Independent Practice			
35	Operations with Whole Numbers Quiz	Quiz			
37	Order of Operations	Student Handout			
39	Order of Operations	Independent Practice			
41	Evaluating Expressions	Student Handout			
43	Evaluating Expressions	Independent Practice			
45	Problem Solving with Algebraic Reasoning: Part I	Student Handout			
47	Problem Solving with Algebraic Reasoning: Part I	Independent Practice			
49	Problem Solving with Algebraic Reasoning: Part II	Student Handout			
51	Problem Solving with Algebraic Reasoning: Part II	Independent Practice			
53	Whole Number Operations Unit Review	Review			
57	Whole Number Operations Unit Test	Test			
61	Whole Number Operations Unit Answer Key	Answer Key			

S @Maneuvering the Middle LLC, 20

A MANEUVERING THE MIDDLE® RESOURCE

WHOLE NUMBER OPERATIONS



a 13 day TEKS-aligned unit

TEKS: 5.3A, 5.3B, 5.3C. 5.3K, 5.4A, 5.4E, 5.4F

student friendly + real-world application

DIVIDING WHOLE NUMBERS WITH PARTIAL QUOTIENTS STUDENT HANDOUT		_Pd			iffol		
MJ works at a local Theater Club and is designing a rectangular star. The stage needs to have an area of 640 square feet and the width determine the length, MJ draws the model shown below. To get close 640 square feet, he starts by multiplying 20×30 which he knows is	must be 20 feet. To se to an area of			COI	ncep	115	
a. Describe how to find the missing area labeled A. $\hfill \Gamma$	30 B						
b. Describe how to find the missing length labeled B.	600 A						
c. Use the model to complete the division statement: 640 \div 20 =							
In the area model above, the area of the rectangle represents the the partial quotients of 30 to determine the final The area model helps u dividing with partial quotients as described below.	0 and 2 were added	SUBTRAC	TING WHO	OLE	Name		
DIVIDING USING PARTIAL QUOTIENTS	432 ÷ 6	NUMBERS	NT PRACTICE		Date		Pd
Using the divisor, choose a friendly number of groups that you know will fit into the Record		Solve each prob	olem below. Matc	h your answers in			
that you know will fit into the		1 587,620 -	- 220,417	15,248	– 9,357	3 14,000	– 7,658
Continue this process with the amount remaining until the difference is 0 or less than the divisor.							
4. Add the quotients to determine the final							
Describe how you can check that your quotient is correct. Then use answer.	that process to che	4 372,208		5 7,358,490) – 23,527	6 432,800	- 8,652
		7 167,364 -	- 124,557	8 7,203,520	0 – 82,413	9 7,482,950	- 105,747
					T		
16 1 1.			I: 7,334,963	C: 424,148	O: 7,121,107	G: 6,383,217	
lf-checking		A: 367,203 N: 43,213	T: 6,342	M: 7,377,203	H: 42,807	S: 5,891	E: 330,85

A MANEUVERING THE MIDDLE® RESOURCE

WHOLE NUMBER OPERATIONS



a 13 day TEKS-aligned unit TEKS: 5.3A, 5.3B, 5.3C. 5.3K, 5.4A, 5.4E, 5.4F

unit study guide + assessments

The table shows the number of passengers airports on Saturday. Use the table to answe		wers		/	di	table	ur	١i١	+ + <i>c</i>
1. The number of passengers who flew into DFW airport was 13,586 more than the number of passengers who flew into JFK How many passengers flew into DFW?	Airport # of Passengers 3.						a.		
a. 160,960 b. 171,843 c. 294,117 d. 144,671	WHOLE NUMBER OPERATIONS UNIT REVIEW		Name Date		Pd	<u> </u>			
2. The number of passengers who flew in than the number of passengers who flew	Solve each of the problems below. Be I CAN ADD WHOLE NUMBERS.	sure to ask	questions if you	need more he	lp with a t	opic.			
flew into ATL? a. 193,089	1. 384,862 + 60,749 =		2. 74.208 +	6.354 =					
b. 104,347 c. 213,111 d. 214,605			ULTIPLYING	G WHOLE	:	Name Answel	Key		Pd
Answer the questions below. Be sure to 3. A teacher writes a factor pair "2 × 44"			DENT HANDO	ит					
the statements shown below. Who is corn		Gabr	iel drew the area	model shown	below to r				
a. Suzie b. Ron c. Both d. Neither	3. A student drew an open number lin the sum of 72,305 and 4,592.		omplete the model 400 + 320 + 16 =		ution.	8 2,4	100	320	+ 2
4. Mrs. Caldwell wrote the following prob following is NOT a true statement?	72,305 76,305 76,					d the solution to 342 :		ue by 1	0.
	a. Fill in any missing blanks on the n	c. Dr	aw an area mode		olution to 3	342 × 18.			
a. The dividend is 3,210 and the divisor is b. I can think of this a multiplication prob	b. Write the problem and sum below	8	2,400	320	16	= 2,400 + 320 + 16 = 2,736	5		
c. I can estimate that the quotient should d. The quotient is 214.		10	3,000	400	20	= 3,000 + 400 + 20 = 3,420)		
	I CAN SUBTRACT WHOLE NUMBERS						2.7	36 + 3.	420 = 6,15
	5. 2,384,641 – 573,856 =	and c		to find the ov	erall prod	plying two numbers, y duct. The standard alg anize your work.	ou can find	partial (products
			MULTIPLYII	NG WITH 1	HE ALG	GORITHM	3	42 × 1	8
			1. Line up the nu			value .		3	4 2
		2. N	fultiply each digit	in the top numb of the bottom		e <u>ones</u> place	×	3	1 8
			Put a <u>zero</u>	under the one	s place in		2,	7	3 6
_		li	ne and repeat the			ns digit of the	3,	4	2 0
		A A	bottom number. 4. Add the partial products together to find the final product.				6,	1	5 6
6 6 3 7 7 6 1 6 1 6 6		: 4	iiie pariial p	i oddors rogeth	et to titla	me mui product.			
nswer ke	eys <u> </u>		*Doma	regroup and	oanni:				