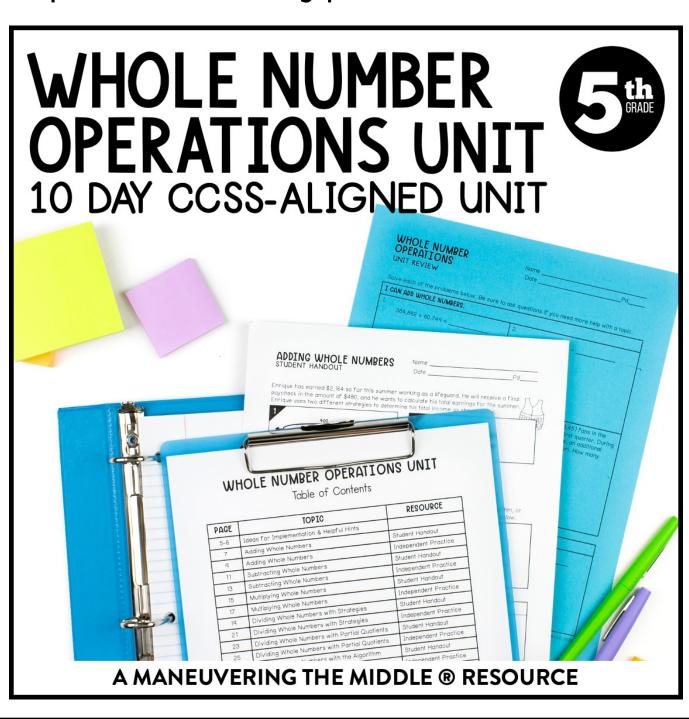
learning focus:

- 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 10 day CCSS-aligned unit CCSS: 4.NBT.B.4, 5.NBT.5, 5.NBT.6, 5.OA.1, 5.OA.2

ready-to-go, scaffolded student materials

WHOLE NUMBER OPERATIONS UNIT

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WHOLE NUMBER OPERATIONS

5th GRADE

a 10 day CCSS-aligned unit CCSS: 4.NBT.B.4, 5.NBT.5, 5.NBT.6, 5.OA.1, 5.OA.2

student friendly + real-world application

DIVIDING WHOLE NUMBERS WITH PARTIAL QUOTIENTS STUDENT HANDOUT MJ works at a local Theater Club and is designing a rectangular stage for performant. The stage needs to have an area of 640 square feet and the width must be 20 feet. The stage needs to have an area of 640 square feet and the width must be 20 feet. The stage needs to have an area of 640 square feet, he starts by multiplying 20 × 30 which he knows is 600.	
a. Describe how to find the missing area labeled A. 20 600 A b. Describe how to find the missing length labeled B.	
c. Use the model to complete the division statement: 640 ÷ 20 =	
n the area model above, the area of the rectangle represents the, and dimension represents the, The partial quotients of 30 and 2 were added to determine the final The area model helps us visualize the production with partial quotients as described below. DIVIDING USING PARTIAL QUOTIENTS 432 ÷ 6	SUBTRACTING WHOLE NamePd
Using the divisor, choose a friendly number of groups	INDEPENDENT PRACTICE Solve each problem below, Match your answers in the table to solve the riddle.
that you know will fit into the	1 587,620 – 220,417 2 15,248 – 9,357 3 14,000 – 7,658
escribe how you can check that your quotient is correct. Then use that process to c nswer.	4 372,208 - 41,356 5 7,358,490 - 23,527 6 432,800 - 8,652
	7 167,364 – 124,557 8 7,203,520 – 82,413 9 7,482,950 – 105,747
f-checking	A: 367,203
actice	WHAT IS A BUTTERFLY'S FAVORITE SUBJECT IN SCHOOL?

A MANEUVERING THE MIDDLE® RESOURCE

WHOLE NUMBER OPERATIONS



a 10 day CCSS-aligned unit CCSS: 4.NBT.B.4, 5.NBT.5, 5.NBT.6, 5.OA.1, 5.OA.2

unit study guide + assessments

he table shows the number of passengers irports on Saturday. Use the table to answe		wers] ,	/	di	table	HIT	ı i t	t
The number of passengers who flew into FW airport was 13,586 more than the umber of passengers who flew into JFK low many passengers flew into DFW?	Airport # of Passengers 3.						a i	•••	
. 160,960 . 171,843 . 294,117 . 144,671	WHOLE NUMBER OPERATIONS UNIT REVIEW		Name Date		Pd	i			
. The number of passengers who flew i nan 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.			
lew into ATL? . 193,089	1. 384,862 + 60,749 =			6.354 =					
. 104,347 . 213,111 . 214,605			JLTIPLYIN JMBERS	g WHOLI	Ξ	Name Answe	r Key		Pd
answer the questions below. Be sure to . Shonda lives at an apartment complex		STU	IDENT HANDO	out					
honda have paid in rent after living at the		Gabr	riel drew the arec	model shown	below to r	multiply 342 × 8.	0 +	40	+ 2
	3. A student drew an open number line the sum of 72,305 and 4,592.		omplete the mode 400 + 320 + 16 =		ution.		100	320	16
. Mrs. Caldwell wrote the following prob ollowing is NOT a true statement?	72,305 76,305 76,					d the solution to 342 : where he multiplies ed		lue by 1	10.
	a. Fill in any missing blanks on the n	c. Dr	raw an area mode		olution to 3	342 × 18.			
The dividend is 3,210 and the divisor is . I can think of this as a multiplication pr . I can estimate that the quotient should	b. Write the problem and sum below	8	2,400	320	16	= 2,400 + 320 + 16 = 2,736			
. The quotient is 214.		10	3,000	400	20	= 3,000 + 400 + 20 $= 3,420$)		
	I CAN SUBTRACT WHOLE NUMBERS	L					2,7	36 + 3	,420 = 6,1
	5. 2,384,641 – 573,856 =	and a		r to find the ov	erall prod	plying two numbers, y duct. The standard alg anize your work.	ou can find	partial	products
			MULTIPLYI	NG WITH 1	HE ALG	CORITHM	342 × 18		
			1. Line up the nu						
		2. N	Multiply each digit	in the top numl of the bottom		ones place	×	3	4 2 1 8
			Put a <u>zero</u>	under the one	s place in		2,	7	3 6
_		I	ine and repeat the			ns digit of the	3,	4	2 0
nswer keys		bottom number. 4. Add the partial products together to find the final product.				the final product	6,	1	5 6
A		. 4.		a Juduois loyell	or to titlu	THE THIRD PLUGGET.			