

Lesson 9:

Multiply two-and three-digit numbers by two-digit numbers by using the standard algorithm.

CCSS Standard -5.NBT.B.5

Write the product.

1.	1 × 20 =	20
2.	2 × 600 =	1,200
3.	3 × 9,000 =	27,000

Sprint A



FLUENCY (15-min)

Multiply by Multiples of 10, 100, 1,000, and 10,000

Write the product.

1.	1 × 10 =
2.	1 × 30 =
3.	2 × 30 =
4.	3 × 30 =
5.	30 × 3 =
6.	40 × 4 =
	50 × 5 =
8.	1 × 100 =
	2 × 200 =
10.	3 × 400 =
11.	300 × 4 =
12.	200 × 5 =
13.	200 × 6 =
14.	7 × 300 =
15.	8 × 400 =
16.	9 × 500 =

Number Correct: .

23.	5,000 × 7 =
24.	6,000 × 8 =
25.	7,000 × 9 =
26.	1 × 10,000 =
	2 × 20,000 =
	3 × 30,000 =
29.	40,000 × 4 =
- 20	50,000 × 5 =
31.	60,000 × 6 =
32.	7 × 70,000 =
33.	8 × 80,000 =
34.	9 × 90,000 =
35.	2 × 90 =
36.	3 × 90 =
	6 × 10,000 =
38.	20,000 × 5 =

Sprint A

STOP!!

Underline the last problem that you did.



I am going to read the answers. If you got it right, call out "Yes!"

Count the number you got **correct** and write the number at the top of the page.

THIS WILL BE YOUR PERSONAL GOAL FOR SPRINT B

Write the product.

1.	1 × 20 =	20
2.	2 × 600 =	1,200
3.	3 × 9,000 =	27,000

Sprint B



FLUENCY (15-min)

Multiply by Multiples of 10, 100, 1,000, and 10,000

Write the product.

L	1 × 10 =
2.	1 × 20 =
3.	2 × 20 =
4.	3 × 20 =
5.	20 × 3 =
6.	30 × 4 =
7.	40 × 5 =
8.	1 × 100 =
9.	2 × 200 =
10.	3 × 400 =
11.	300 × 4 =
12.	200 × 5 =
13.	200 × 6 =
14.	7 × 200 =
15.	8 × 300 =
16.	9 × 400 =
17.	1 × 1,000 =

Number Correct: . Improvement: .

23.	4,000 × 7 =
	5,000 × 8 =
	6,000 × 9 =
26.	1 × 10,000 =
27.	2 × 10,000 =
	3 × 20,000 =
29.	30,000 × 4 =
30.	40,000 × 5 =
31.	50,000 × 6 =
	7 × 60,000 =
	8 × 70,000 =
34.	9 × 80,000 =
	2 × 80 =
36.	3 × 80 =
37.	5 × 10,000 =
38.	5 × 20,000 =
	60,000 × 7 =



Sprint B

Underline the last problem that you did.



I am going to read the answers. If you got it right, call out "Yes!"

Count the number you got correct and write the number at the top of the page.

Determine your improvement score!

LAUNCH (5-min)

Discuss a real-world use of an area model.

Painting a Mural Video



What did you notice in the video?

What do you wonder?

Does having the factors broken apart by place value help you multiply?

https://digital.greatminds.org/lessons/player/lesson/teacher-preview

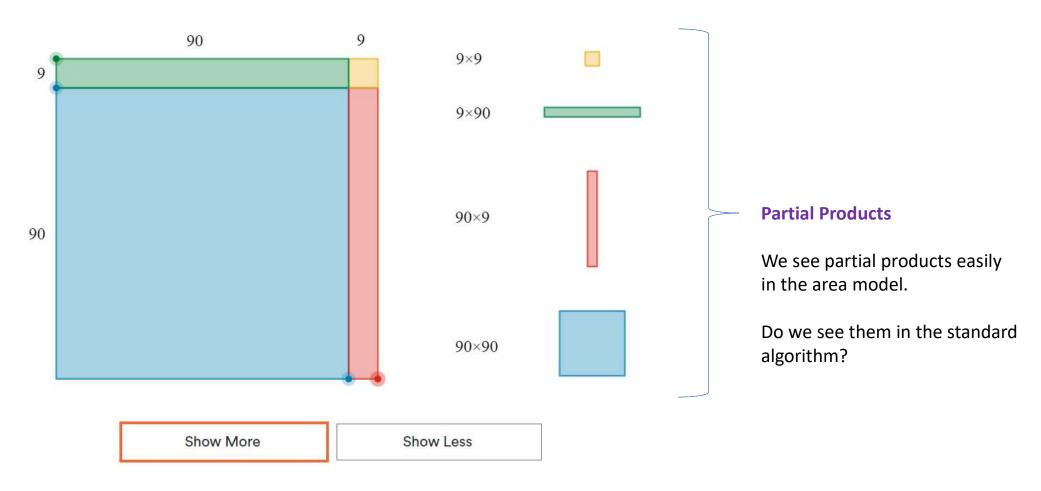
Mr. Perez paints the gymnasium wall. The wall is 24 feet wide and 33 feet long. How many square feet does Mr. Perez paint?

	30	3	e e		_	3	3	
4	120	12	600 120	×		2	4	
20	600	60	60		1	3	2	
			+ 12	+	6	6	0	
			792		7	9	2	
,		c.	Mr. Perez pa	aints	792	squa	are f	eet.

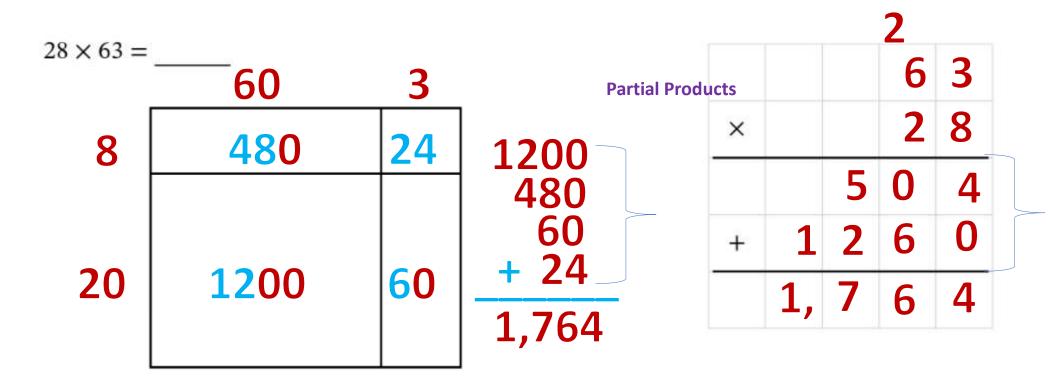
Area Model

Standard Algorithm





https://digital.greatminds.org/lessons/player/lesson/teacher-preview



Area Model

Standard Algorithm

$$28 \times 63 =$$

What does the 504 represent?

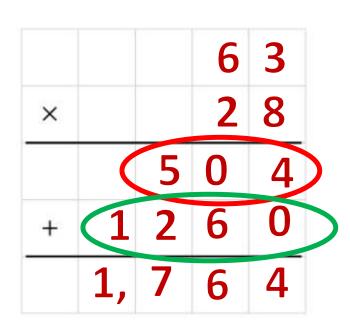
Eight 63's

What does the 1,260 represent?

Twenty 63's

What does the 1,764 represent?

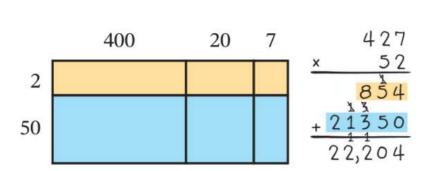
Twenty-eight 63's

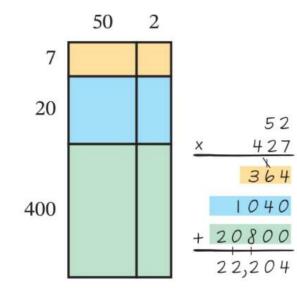


Standard Algorithm

Flatback turtles lay 52 eggs in a nest. How many turtle eggs would there be in 427 nests?

4 2 7 x 5 2





Exit Ticket



<u>~</u>

Consider the expression shown.

 446×81

a. Draw an area model to find the partial products.

Exit Ticket

Small Group Time:

Problem Set Page xx

Homework:

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b. Multiply by using the standard algorithm.