

*Due Monday 11/11/19

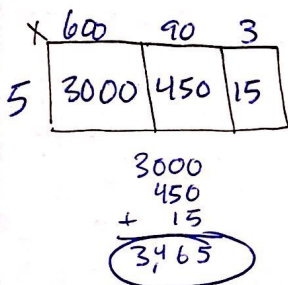
Name Key

4th Grade Homework - Week 13

Review 5.16.5

Solve 5×693 using the area model and the expanded algorithm.

Area Model



Expanded Algorithm

$$\begin{array}{r} 693 \\ \times 5 \\ \hline 15 \\ 450 \\ + 3000 \\ \hline 3465 \end{array}$$

Fill in the numbers missing from the equations showing the distributive property below.

$5 \times 36 = (5 \times 30) + (5 \times 6)$

$8 \times 284 = (8 \times 200) + (8 \times 80) + (8 \times 4)$

$6 \times 57 = (6 \times 50) + (6 \times 7)$

$2,754 \times 3 = (3 \times 2,000) + (3 \times 700) + (3 \times 50) + (3 \times 4)$

$642 \times 8 = (8 \times 600) + (8 \times 40) + (8 \times 2)$

Monday

What basic fact can you use to help you solve

$800 \times 8?$

$8 \times 8 = 64$

Select the expressions with a product of 2,400.

$400 \times 6 = 2400$

$60 \times 4 = 240 \times$

$12 \times 10 = 120 \times$

$2 \times 20 = 240 \times$

$1,200 \times 2 = 2400$

Franklin has 68 quarters. His friend has 5 times as many quarters. How many quarters does his friend have?

340 quarters

Show work:

$$\begin{array}{r} 68 \\ \times 5 \\ \hline 340 \end{array}$$

Remember to circle the units and dots!
Multiply to find each product.

$900 \times 5 = 4500$

$6 \times 70 = 420$

$300 \times 4 = 1200$

$8 \times 50 = 400$

$200 \times 7 = 1400$

$5 \times 500 = 2500$

Write two different multiplication expressions with a 1-digit factor, a 3-digit factor, and a product of 4,200.

$(2 \times 2100) = 4,200$

6×700

7×600

Jose earned \$215 each week he worked at the grocery store. If he worked for 8 weeks, how much money did he earn?

\$1,720

Show work:

$$\begin{array}{r} 215 \\ \times 8 \\ \hline 1720 \end{array}$$

Complete the table below.

Original Number	Rounded to the <u>Hundreds</u> ¹⁰⁰ Place	Rounded to the <u>Thousands</u> ^{1,000} Place
14,590	14,600	15,000
569,223	569,200	569,000
87,217	87,200	87,000
909,355	909,400	909,000

Write the related facts for 4, 6, and 24.

$$4 \times 6 = 24$$

$$6 \times 4 = 24$$

$$24 \div 6 = 4$$

$$24 \div 4 = 6$$

A car manufacturer produces 435 cars in one week. How many cars will the factory produce in 6 weeks?

2610 cars

$$\begin{array}{r} 2435 \\ \times 6 \\ \hline 2610 \end{array}$$

Draw the symbol to complete the statement.

If $\square \times 7 = 0$, then $\square = 0$.

Write each number in standard form.

82 hundreds and 16 tens $\overset{8200}{+} \overset{160}{+} = 8360$

192 hundreds and 4 tens $\overset{19200}{+} \overset{40}{+} = 19240$

45 hundreds and 15 tens $\overset{4500}{+} \overset{150}{+} = 4650$

Which equation shows that 9 is a factor of 72?

72 = 70 + 2

72 = 9 x 8

72 = 90 - 18

72 = 144 ÷ 2

Circle the multiples of 15.

- 1, 3, 5, 15, 30, 33, 35, 45, 55

Which patterns follow the rule, 'Add 3, Multiply 2.' Circle all that apply.

- 3, 6, 9, 18, 21, 42
- 5, 8, 11, 14, 17, 20
- 6, 12, 24, 48, 96, 192
- 7, 10, 20, 23, 46, 49
- 10, 13, 26, 29, 58, 61

Subtract

$$\begin{array}{r} 799 \\ 710 \\ 13 \\ \hline 48,003 \\ - 16,324 \\ \hline 31,679 \end{array}$$

Add

$$\begin{array}{r} 57,987 \\ + 24,905 \\ \hline 82,892 \end{array}$$

Name _____

4th Grade Homework - Week 13

7.1

Use the area model to multiply. $24 \times 13 = \underline{312}$

	20	+	4
10	200		40
+			
3	60		12

$$\begin{array}{r} 200 \\ 60 \\ 40 \\ + 12 \\ \hline 312 \end{array}$$

There are 52 weeks in a year. If Sebastian turned 9 today, how many weeks old is Sebastian?

write an equation! $52 \times 9 = \underline{468}$ weeks

$$\begin{array}{r} 52 \\ \times 9 \\ \hline 468 \end{array}$$

Scott used the area model to solve the expression 74×32 . His teacher marked his answer wrong.

Scott's Work

	70	+	4	
30	2,100 ✓		120 ✓	2,100
+				140
2	140 ✓		8 ✓	120
				+ 8
				<u>330</u>

2,100
140
120
+ 8
2,368

Explain to Scott where his mistake is and how to correct it.

Scott's mistake was he did not add all four of the partial products. He forgot to add 140 and 8.

What are the partial products for the expression 56×72 ? Circle all that apply.

$50 \times 60 = 3000$

$30 \times 20 = 600$

$70 \times 40 = 2800$

$30 \times 60 = 1800$

$80 \times 80 = 6400$

$40 \times 20 = 800$

$70 \times 50 = 3500$

4,200

$50 \times 70 = 3,500$

1,000

$6 \times 70 = 420$

350

$50 \times 2 = 100$

$6 \times 2 = 12$

8

Wednesday

Circles and dots!

NBT5

There are 36 rows of seats in one area of an auditorium. There are 28 rows of seats in another area of the same auditorium. Each row has 8 seats. What is the total number of seats in the two areas of the auditorium? 512 seats

$$\begin{array}{r} 36 \text{ rows} \\ + 28 \text{ rows} \\ \hline 64 \text{ rows} \end{array}$$

$$\begin{array}{r} 64 \text{ rows} \\ \times 8 \text{ seats} \\ \hline 512 \text{ seats} \end{array}$$

Show your work!

Celeste drinks 14 cups of water a day. How many cups of water does she drink in 31 days? 434 cups

Show work!

$$\begin{array}{r} 14 \\ \times 31 \\ \hline 14 \\ + 420 \\ \hline 434 \end{array}$$

Multiply to find each product.

circles and dots!

$800 \times 3 = 2400$
 $70 \times 40 = 2800$
 $8,000 \times 2 = 16,000$
 $90 \times 40 = 3600$
 $600 \times 7 = 4,200$
 $3 \times 70 = 210$

This question has 3 parts, A-C.

Dyllan keeps his baseball cards in two albums. The first album has 38 pages. The second album has 56 pages. In each album, each page holds 2 baseball cards. Both albums are full and cannot hold any more baseball cards.

Part A - How many baseball cards are in the first album? Use the area model to solve.

456 cards

$\times 30$	8	
10	300	80
2	60	16

$$\begin{array}{r} 300 \\ 80 \\ 60 \\ + 16 \\ \hline 456 \end{array}$$

Part B - How many baseball cards are in the second album? Use the area model to solve.

672 cards

	$\times 50$	6	
10	500	60	
2	100	12	

$$\begin{array}{r} 500 \\ 100 \\ 60 \\ + 12 \\ \hline 672 \end{array}$$

Part C - How many baseball cards does Dyllan have in both albums?

1128 cards

$$\begin{array}{r} 456 \\ + 672 \\ \hline 1128 \end{array}$$