## 4<sup>th</sup> Grade Parent Information

## April 13-24

- Recommended daily math practice time: 30 minutes
- There are 10 "practice" pages Recommendation is 1 page per day.
- There are 8 "fluency practice" pages addition, subtraction, multiplication, and division. Recommendation is to work 15-20 problems per day from pages of your child's choice. However, the goal is practice and remembering how to work problems correctly. Adjust the number of problems based on how long it takes your child to complete.
- There are 6 "Activity" pages Recommendation is 2-3 "Activities" per week for 10-15 minutes each activity. These activities can be repeated for extra practice. If cutting pieces out is needed for an activity, your child may need to re-create on their own paper depending on how it prints.
- Answer keys are at the end of the document for pages that can't be checked easily with a calculator.

Additional Ideas that can be practiced daily or every other day:

- Read and write numbers less than or equal to 1,000,000 using standard form, word form, and expanded form.
  - Example: four thousand two hundred fifty six = 4,256 = 4 x 1000 + 2 x 100 + 5 x 10 + 6 x 1
- Add and subtract within 1,000,000 Have your child create numbers to add or subtract. Use a calculator to check.
- Multiply up to four digits by one digit numbers. Use a calculator to check
- Multiply two two-digit numbers. Use a calculator to check.
- Continue practicing multiplication and division facts up to 12x12 (or higher if desired).
   Your child could create their own flash cards with a fact and a picture/array to illustrate.
   Another option is to write the fact families for the facts. Example: 5 x 2 = 10; 2 x 5 = 10; 10 ÷ 2 = 5; 10 ÷ 5 = 2

## Understanding of Place Value

Name:

Set A

Write the number 78,215 in the place-value chart.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Write 78,215 in expanded form and word form.

2 Write the number 540,632 in the place-value chart.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

Write 540,632 in expanded form and word form.

#### Set B

3 Show different ways to make 25,302.

\_\_\_\_\_ thousands + \_\_\_\_\_ hundreds + \_\_\_\_\_ ones

\_\_\_\_\_ hundreds + \_\_\_\_\_ ones

ones

4 Show different ways to make 708,496.

\_\_\_\_\_ hundred thousands + \_\_\_\_\_ thousands + \_\_\_\_\_ hundreds +

\_\_\_\_\_tens + \_\_\_\_\_ones

\_\_\_\_\_thousands + \_\_\_\_\_hundreds + \_\_\_\_\_tens + \_\_\_\_\_ones

hundreds + \_\_\_\_\_ tens + \_\_\_\_\_ ones

Comp	aring M	ulti-Digit I	Numbers		Name:	
Set A						
Write t	ne symbol	that makes	each statemen	t true. Use >,	<, or =.	
1 23,2	30	2,323	2 33,003	33,030	3 9,999	10,000
4 40,4	04	40,040	5 52,177	52,771	6 421,073	412,730
Set B						
7 Circ	le a <mark>ll th</mark> e n	umbers that a	re less than 78,2	265.		
78,0	00	79,000	70,000	80,000	78,200	78,300
8 Circ	le all the n	umbers that a	re less than 45,7	63.		
46,0	00	40,000	50,000	45,700	45,800	45,000
9 Circ	le all the n	umbers that a	re greater <mark>t</mark> han	108,427.		
108,	000	108,400	108,500	109,000	108,430	108,420
10 Hov	v did you s	olve problem	7?			

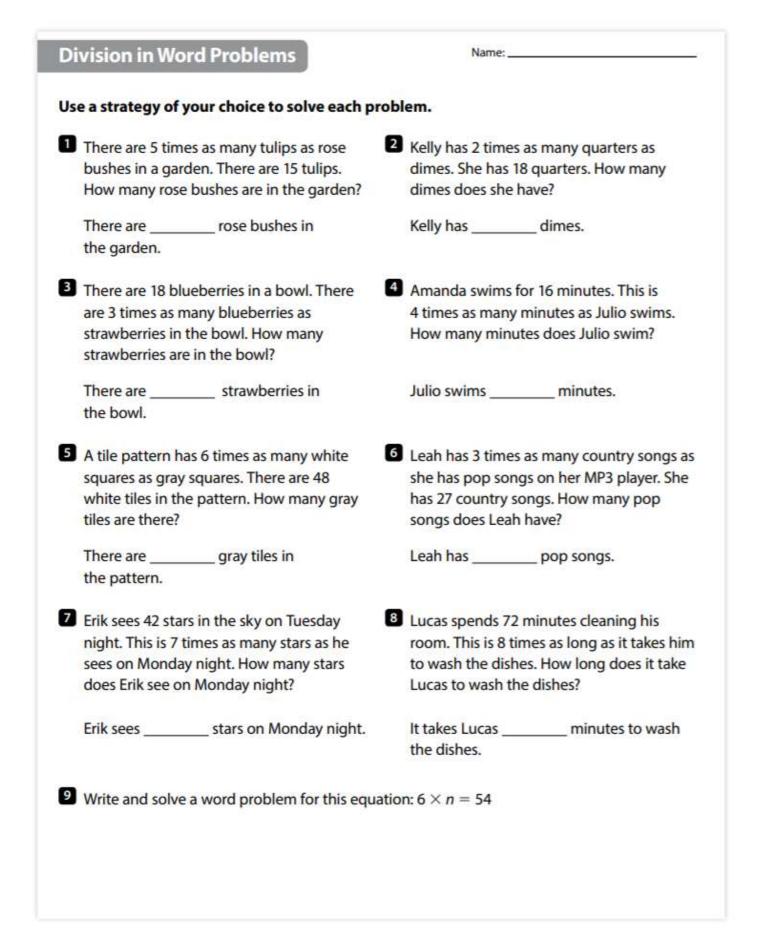


se a strategy of your choice to solve each pro	oblem.
The library has 5 mystery books on a shelf. It has 4 times as many fiction books on another shelf. How many fiction books are on the shelf?	Paul runs 2 laps around the gym. Carrie runs 6 times as many laps as Paul. How many laps does Carrie run?
There are fiction books on the shelf.	Carrie runs laps.
many colored pencils as markers. How many colored pencils does she have?	Owen draws 7 comics in April. He draws 3 times as many comics in May. How many comics does Owen draw in May?
Violet has colored pencils.	Owen draws comics in May.
Tasha used 8 tomatoes to make salsa. She used 4 times as many tomatoes to make sauce. How many tomatoes did Tasha use to make sauce?	6 There are 7 pear trees on a farm. There are 7 times as many apple trees as pear trees. How many apple trees are on the farm?
Tasha used tomatoes to make sauce.	There are apple trees.
There are 9 school buses in the parking lot. There are 6 times as many cars as school buses in the parking lot. How many cars are in the parking lot?	8 There are 8 vases at an art show. There are 9 times as many paintings as vases at the art show. How many paintings are at the art show?
There are cars in the parking lot.	There are paintings at the art show.

Multiplying a Three-Digit Number by a One-Digit N		ne:
Find the product.  1 500 × 4 =	501 × 4 =	506 × 4 =
<b>2</b> 300 × 2 =	299 × 2 =	298 × 2 =
3 400 × 3 =	405 × 3 =	410 × 3 =
4 499 × 6 = 5	706 × 3 =	6 195 × 5 =
What pattern do you notice in p such as 297 × 2?	problem 2? How could it help y	ou solve a problem
8 Choose problem 4, 5, or 6. Expl	ain how you could check your	answer.



# **Multiplying a Four-Digit** Name: Number by a One-Digit Number Estimate. Circle all the problems that will have products between 18,000 and 32,000. Then find the exact products of only the problems you circled. Show your work. **1** $8,491 \times 2 =$ **2** $6,148 \times 4 =$ **3** $7,062 \times 5 =$ **4** 4,362 × 5 = \_\_\_\_ **5** 1,789 × 8 = \_\_\_\_ **6** 2,206 × 9 = \_\_\_\_ 7 7,218 × 4 = \_\_\_\_\_ 8 9,821 × 3 = \_\_\_\_ 9 4,762 × 6 = \_\_\_\_ 10 6,739 × 6 = \_\_\_\_ 11 7,964 × 4 = \_\_\_\_ 12 3,618 × 7 = \_\_\_\_ 13 What strategies did you use to solve the problems? Explain.



i-Ready

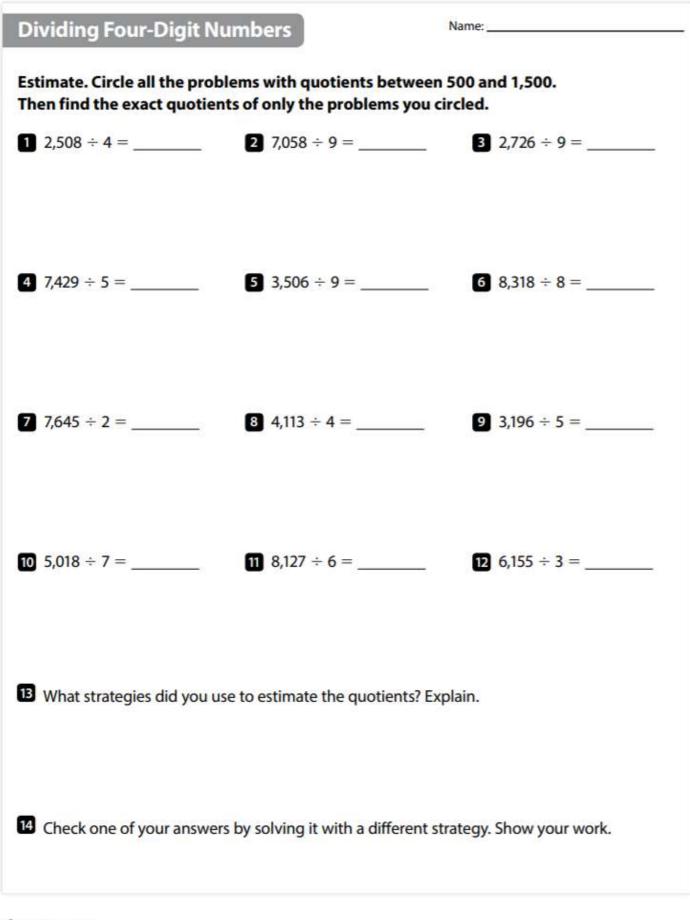
## Dividing with Arrays and Area Models

Name:

The answers to problems 1–12 are mixed up at the bottom of the page. Cross out the answers as you complete the problems.

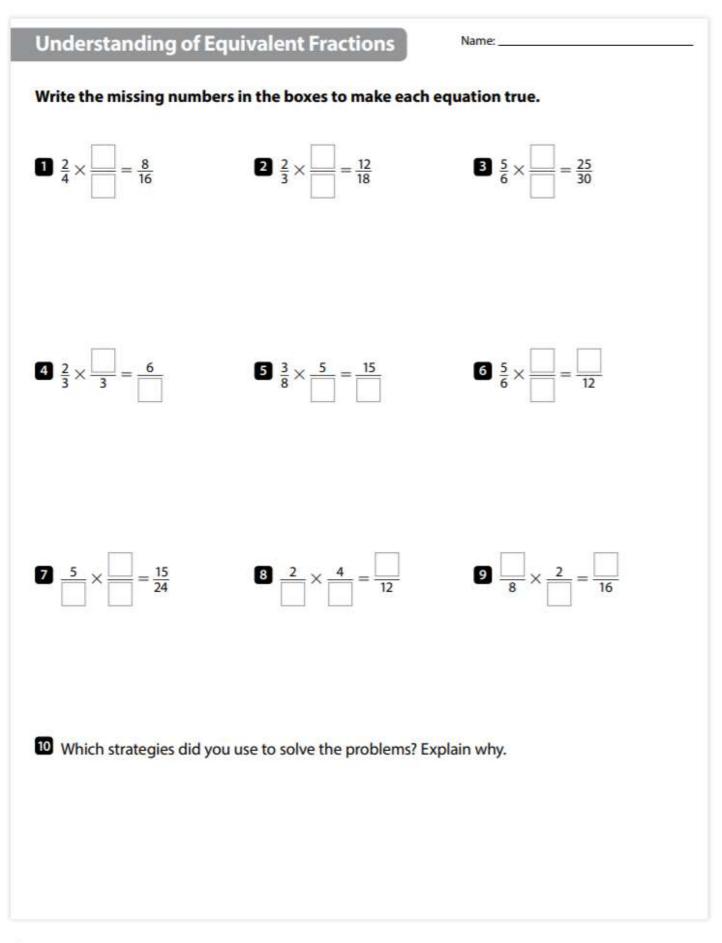
1 606 ÷ 2 =		<b>2</b> 606 ÷ 3 =		<b>3</b> 903 ÷ 3 =	
<b>4</b> 408 ÷ 8 = .	X	<b>5</b> 243 ÷ 3 = _		6 721 ÷ 7 =	
<b>7</b> 545 ÷ 5 = .		<b>8</b> 488 ÷ 8 = .		9 816 ÷ <mark>4</mark> = .	
10 728 ÷ 8 =		<b>11</b> 459 ÷ 9 = _		12 366 ÷ 6 =	:
13 What strate	gies did you use	to solve the pro	blems?		
14 Explain hov	v to use multiplic	ation to check y	our answer to pr	oblem 10.	
Answers					
91	303	61	202	204	109
81	51	301	103	51	61

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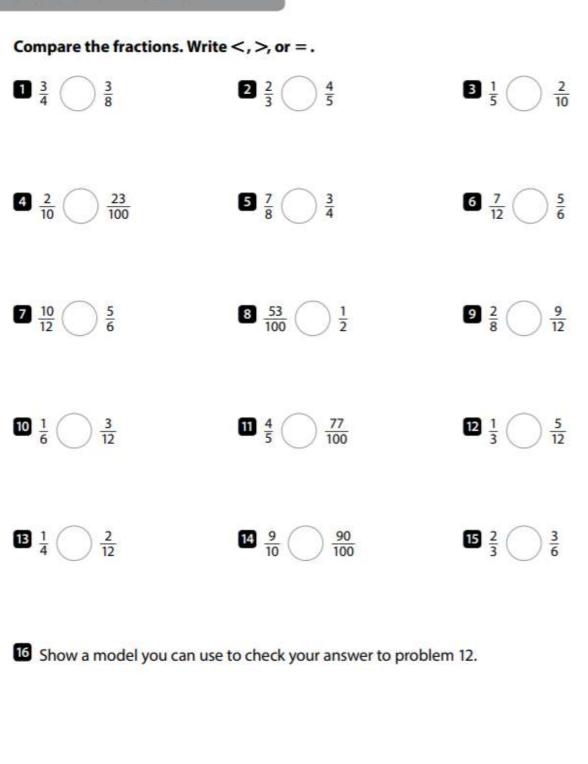
i-Ready

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Using Common Numerators and Denominators

Name:



Multi-Digit Add	ition—Skills Pra	ctice Name:	
Add within 10,000. 2,145 <u>+ 653</u>	<b>2</b> 5,260 + 417	3 1,083 + 2,513	4 2,864 + 7,135
5 <u>1,248</u>	6 3,709	<b>7</b> 4,561	8 5,726
+ 532	+ 152	+ 1,054	+ 3,742
9 3,750	10 2,538	1 1,659	4,806
+ 456	+ 167	+ 3,291	+ 3,255
13 6,725	14 <u>5,218</u>	<b>15</b> 6,002	16 8,375
+ 385	+ 938	+ 2,999	+ 1,625
17 4,278	18 9,407	19 3,098	<b>20</b> 2,710
+ 3,956	+ 396	+ 2,574	+ 5,690



Multi-Digit Ad	dition—Skills Prac	tice Name:	
Add within 100,00	0.		Form A
1 10,352	2 16,164	3 20,753	4 50,618
+ 1,430	+ 1,325	+ 10,104	+ 24,350
5 15,200	6 32,145	7 64,102	8 24,390
+ 999	+ 4,625	+ 17,254	+ 56,180
9 93,752	10 46,250	11 12,643	12 54,622
+ 598	+ 23,805	+ 52,794	+ 34,588
13 23,856	47,423	49,999	16 90,187
+ 15,246	+ 19,836	+ 3,999	+ 9,783
17 84,678	18 27,329	19 52,098	<b>20</b> 48,365
+ 6,395	+ 15,896	+ 28,107	+ 51,635



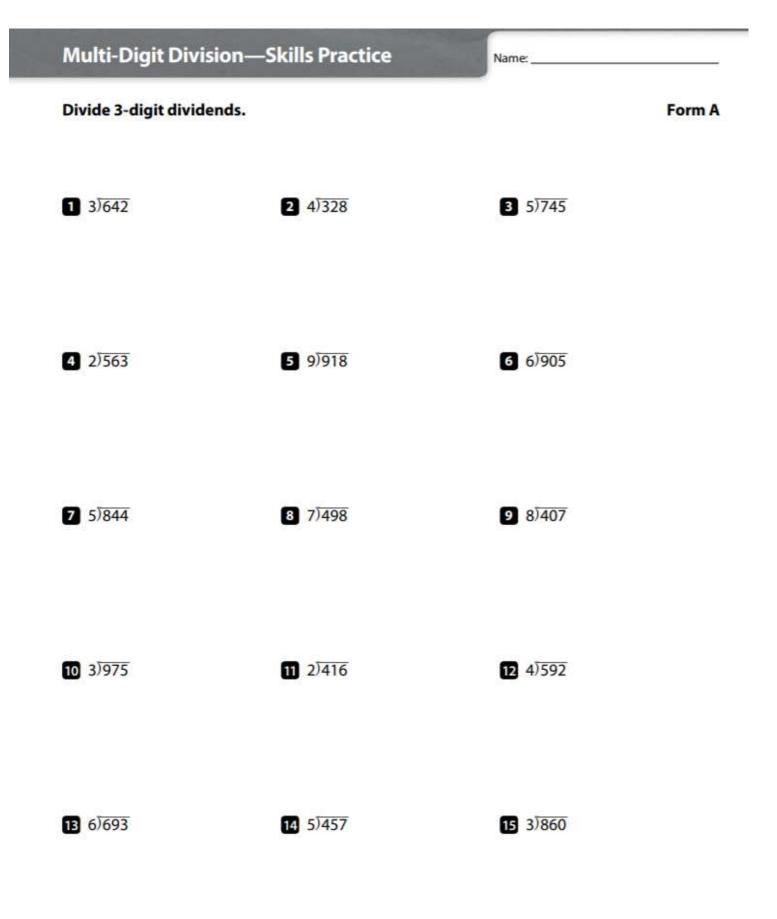
Multi-Digit Sul	otraction—Skills P	ractice Name:	
Subtract within 10 1 4,865 <u>- 2,341</u>	,000. 2 1,788 <u>- 1,263</u>	3 2,592 - 1,271	Form A 7,342 <u>-4,132</u>
5 8,790	6 3,743	<b>7</b> 9,487	8 6,427
<u>- 6,688</u>	- 626	- 1,394	- 2,515
9 2,637	<b>10</b> 3,780	11 8,618	12 4,756
<u>- 2,419</u>	<u>- 671</u>	- 3,425	<u>- 3,813</u>
<b>13</b> 8,403	14 1,438	15 4,725	16 7,275
- 6,520	- 839	- 1,439	<u>- 4,188</u>
<b>17</b> 5,274	18 2,923	19 <u>5,824</u>	20 6,743
- 2,778	- 1,976	<u>- 2,948</u>	- 2,878

Multi-Digit Sul	otraction—Skills P	ractice Name:_	
Subtract within 10 47,863 - 251	<b>0,000.</b> <b>2</b> 19,038 - 11,018	<b>3</b> 28,682 - 3,270	Form A 4 76,429 - 20,306
5 81,235	6 36,725	<b>7</b> 94,130	8 64,728
- 20,017	- 1,582	- 20,125	- 3,914
9 28,236	58,623	11 72,160	12 38,412
- 8,915	- 26,374	- 2,087	- 25,651
13 34,210	14 10,714	<b>15</b> 63,258	16 40,805
- 8,105	- 9,456	- 21,399	- 15,912
<b>17</b> 53,126	18 80,052	19 24,350	20 100,000
- 45,928	- 71,963	- 9,582	- 86,932

Multi-Digit	Multiplication-	-Skills Practice	Name:	
Multiply a 2-di	igit number by a 1-c	ligit number.		Form A
1 12	2 10	3 21	4 23	5 33
<u>× 2</u>	<u>× 3</u>	<u>× 4</u>	<u>× 1</u>	<u>× 2</u>
6 <u>11</u>	7 35	8 46	9 51	10 70
<u>× 8</u>	<u>× 4</u>	× 5	× 3	× 5
10	12 88	13 78	14 29	15 61
<u>× 9</u>	× 4	× 5	× 6	× 6
16 12	17 26	18 58	19 81	20 75
× 7	× 8	× 9	<u>× 7</u>	× 3
21 72	22 92	23 49	24 31	25 56
× 3	× 3	× 7	× 6	× 4
26 34	27 58	28 37	29 <u>64</u>	98
× 6	× 5	× 7	× 8	<u>× 9</u>

Multi-Digit N	lultiplication-	-Skills Practice	Name:	
Multiply 2-digit	numbers.			Form A
1 21	2 18	3 24	4 32	5 12
× 35	× 16	× 12	× 15	× 37
6 <u>11</u>	7 54	8 64	9 75	10 43
× 77	<u>× 92</u>	× 35	× 28	× 15
11 42	12 40	13 57	14 96	15 61
× 96	× 88	<u>× 64</u>	× 70	× 54
16 82	17 26	18 82	19 63	20 35
<u>×27</u>	× 45	× 34	× 36	× 27
21 20	22 41	23 98	24 36	25 28
× 16	× 30	× 20	× 79	× 49

Multi-Digit D	ivision—Skills Pra	actice	ame:	
Divide 2-digit div	vidends.			Form A
3)81	2 4)52	3 5)90	4 2)78	
<b>5</b> 6)85	6 9 <u>)63</u>	<b>7</b> 3)92	8 7 <u>)</u> 81	
9 2) <del>73</del>	10 5)70	<b>11</b> 8)99	12 4)95	
<b>13</b> 9)98	14 3)99	<b>15</b> 6)38	<b>16</b> 5)95	
17 7)87	18 8)62	<b>19</b> 4)82	20 2)87	





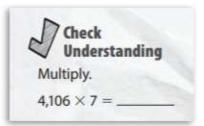
## Multiplying by One-Digit Numbers

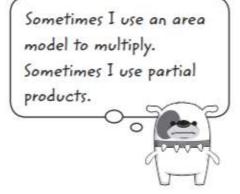
#### What You Need

Recording Sheet

#### What You Do

- Take turns. Pick a problem on the Recording Sheet.
- 2. Multiply. Tell what method you used.
- Your partner checks the answer, using a different method.
- 4. Continue until all the problems are solved.
- Circle the smallest product from the problems you solved on the **Recording** Sheet. Your partner does the same with the problems he or she solved.
- 6. The player with the smallest product wins.





## Go Further!

On a separate sheet of paper, work together to solve this problem: Carlos has collected 6 albums of baseball cards. His friend gives him 5 more cards. If each album has 245 cards, how many cards does Carlos have now?

Number and Operations in Base Ten | Level 4



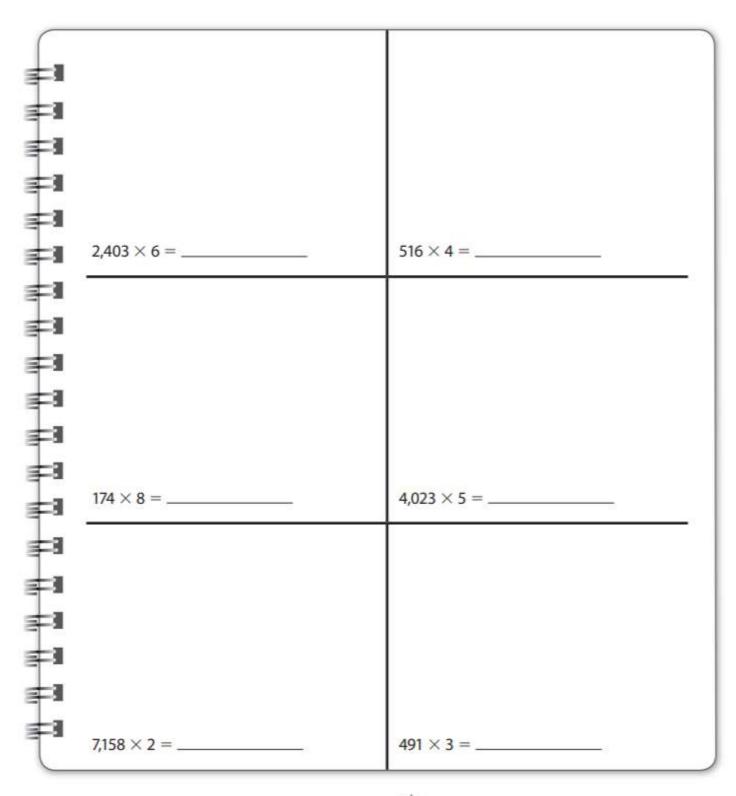
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Partner	A	

Partner B

## Multiplying by One-Digit Numbers





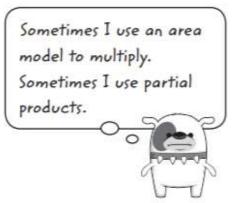
## **Multiplying by Two-Digit Numbers**

#### What You Need

- 7 game markers in one color
- 7 game markers in another color
- Recording Sheet and Game Board

#### What You Do

- Take turns. Pick a problem on the Recording Sheet.
- Find the product. Tell what method you used.
- Your partner checks the answer, using a different method.
- If you are correct, cover the product on the Game Board with your game marker. If you are incorrect, your turn ends.
- The first person to get three in a row wins. If no one gets three in a row on the Game Board, players add the numbers under their game markers. The player with the greater sum wins.



#### Go Further!

Choose a problem on the **Recording Sheet** that you solved. Show two different ways to break apart the factors.



Check Understanding Multiply.  $32 \times 24 =$ \_\_\_\_\_

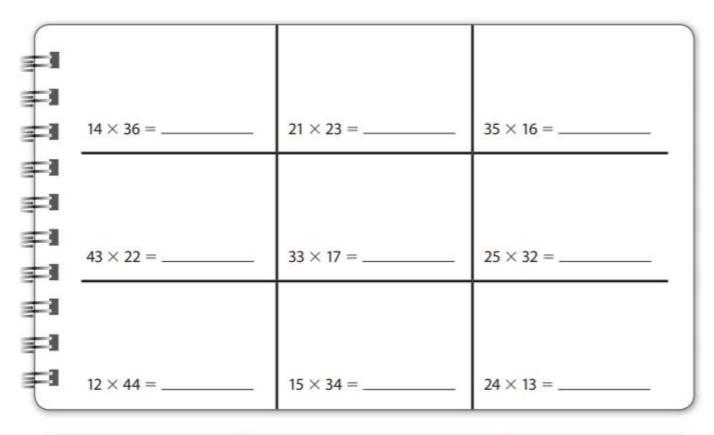
Partner A	

Center Activity 4.24 \*\* Recording Sheet

Game Board and

Partner B

## Multiplying by Two-Digit Numbers



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Number and Operations in Base Ten | Level 4



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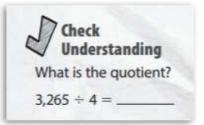
#### **Dividing by One-Digit Numbers**

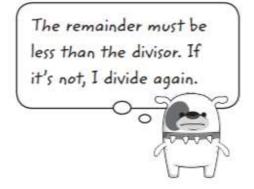
#### What You Need

- 6 game markers in one color
- 6 game markers in a different color
- Recording Sheet and Game Board

#### What You Do

- 1. Take turns. Pick a problem on the **Recording** Sheet.
- Divide. Write the quotient including the remainder.
- Your partner uses multiplication to check the answer.
- If your answer is correct, cover the remainder on the Game Board with your game marker. If it is incorrect, your turn ends.
- Continue until all problems have been solved. The player with the greater number of game markers on the Game Board wins.





## Go Further!

On a separate sheet of paper, rewrite the dividend of the problem  $342 \div 5$  so there is a remainder of 5. Use multiplication and addition to check your answer. Exchange papers with your partner to check.

Number and Operations in Base Ten | Level 4

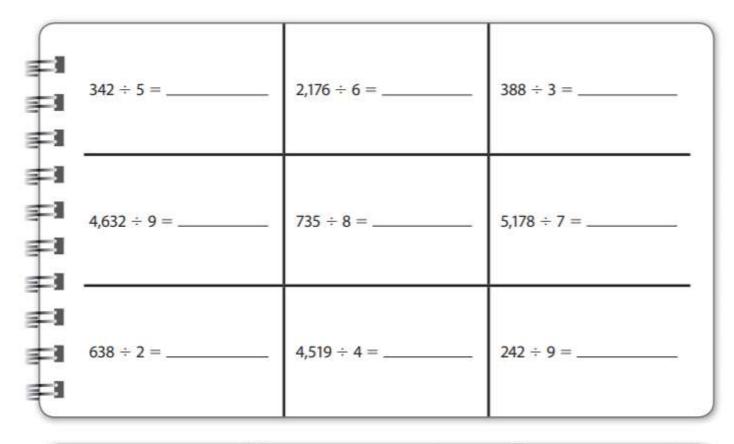


Center Activity 4.25 \*\* Recording Sheet and

Recording Sheet and Game Board Partner A \_\_\_\_\_

Partner B\_\_\_\_\_

## Dividing by One-Digit Numbers



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#### Center Activity 4.26 \*\*

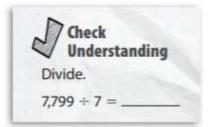
#### **Division Methods**

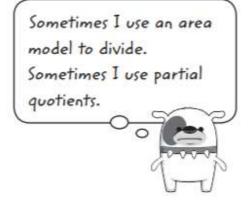
#### What You Need

Recording Sheet

#### What You Do

- Take turns. Pick a problem on the Recording Sheet.
- 2. Divide. Tell what method you used.
- Your partner checks the answer, using a different method. Correct your work, if necessary.
- 4. Continue until all the problems are solved.
- Find the difference between the greatest and the least quotient that you calculated. Do not include remainders. Your partner does the same.
- 6. The player with the greater difference wins.





## Go Further!

Choose a problem on the **Recording Sheet** with a quotient that includes no remainder. On a separate sheet of paper, change the divisor so that the quotient includes a remainder. Exchange papers with your partner to solve.

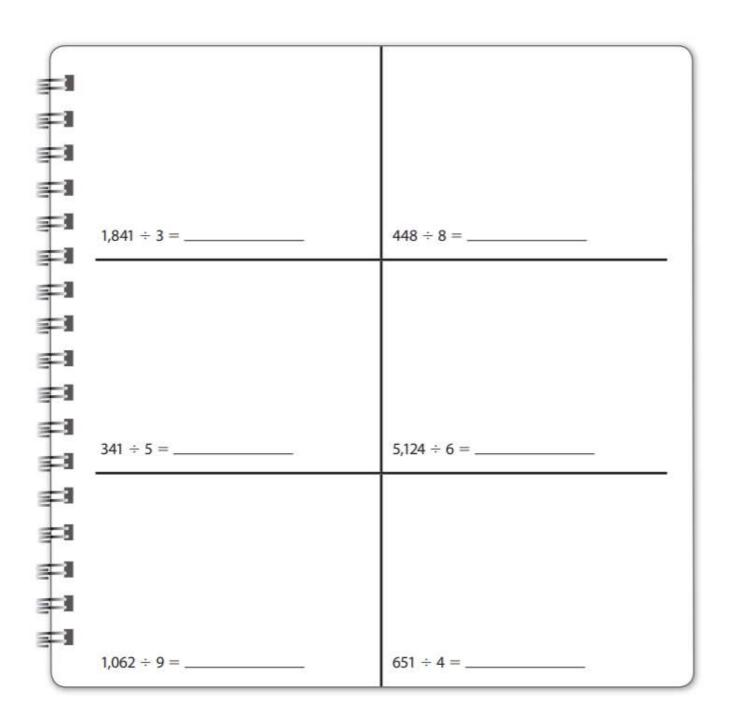


<b>Center Activit</b>	y 4.26 **	Recording	Sheet
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Partner	A		

Partner B

## **Division Methods**





## The Value of a Digit

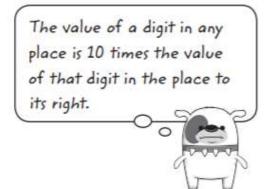
#### What You Need

Recording Sheet and Game Board

#### What You Do

- Take turns. Pick a statement on the Recording Sheet.
- 2. Write the value of the digit.
- Circle a number on the Game Board that has a digit with the same value. Check each other's work.
- The first player to circle three numbers in a row wins.

What is the value of the digit 7 in 73,245?



## Go Further!

Choose two six-digit numbers from the **Game Board.** Change the digit in the ten thousands place to 10 times the value of the digit in the place to its right. Write the new numbers.

Number and Operations in Base Ten | Level 4



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#### Recording Sheet and Game Board

Partner	A

Partner B \_\_\_\_\_

## The Value of a Digit

The value of the digit is 10 times 2 tens.	The value of the digit is 10 times 6 hundreds.	The value of the digit is 10 times 9 ten thousand
The value of the digit is 10 times 5 ones.	The value of the digit is 10 times 3 thousands.	The value of the digit is 10 times 1 ten.
The value of the digit is 10 times 8 thousands.	The value of the digit is 10 times 7 hundreds.	The value of the digit is 10 times 4 thousands.

784,823	34,512	267,801
246,039	190,358	2,136
943,704	142,633	65,245



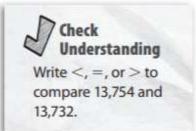
#### **Comparing Numbers**

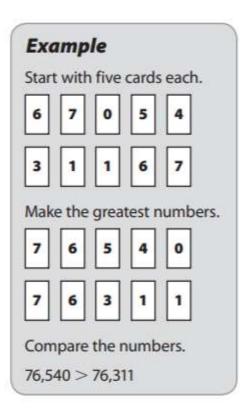
#### What You Need

- two sets of number cards (0–7)
- Recording Sheet

#### What You Do

- Pick five cards without looking. Your partner does the same.
- Use your cards to make the greatest possible five-digit number.
- Write the numbers on the Recording Sheet.
   Write <, =, or > to compare the numbers.
- The partner with the greater number wins the round and writes their initials in the Winner column.
- 5. Mix up the cards after each round.
- Play for five rounds. The partner who wins the most rounds is the winner.
- 7. Play again!





## Go Further!

Choose a number from the **Recording Sheet.** On a separate sheet of paper, write a number that is less, using the same digits. Exchange papers with your partner to check.

Number and Operations in Base Ten | Level 4



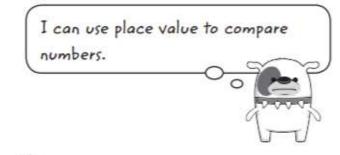
Ready <sup>®</sup> Center A	ctivity 4.18 **	<b>Recording Sheet</b>
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Partner	A		
	12111		_

Partner B \_\_\_\_\_

## **Comparing Numbers**

a _	Round	Player A	Player B	Winner
3	1			
3	2			
	3			
	4			
-	5			





#### Answer Keys for Practice Pages

Write the number 78,215 in the place-value chart.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
	7	8	2	1	5

Write 78,215 in expanded form and word form.

70,000 + 8,000 + 200 + 10 + 5; seventy-eight thousand, two hundred fifteen

2 Write the number 540,632 in the place-value chart.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
5	4	0	6	3	2

Write 540,632 in expanded form and word form.

```
500,000 + 40,000 + 600 + 30 + 2; five hundred forty thousand, six hundred thirty-two
```

Set B

3 Show different ways to make 25,302.

25 thousands + 3 hundreds + 2 ones

253 hundreds + 2 ones

25,302 ones

4 Show different ways to make 708,496.



708 thousands + 4 hundreds + 9 tens + 6 ones



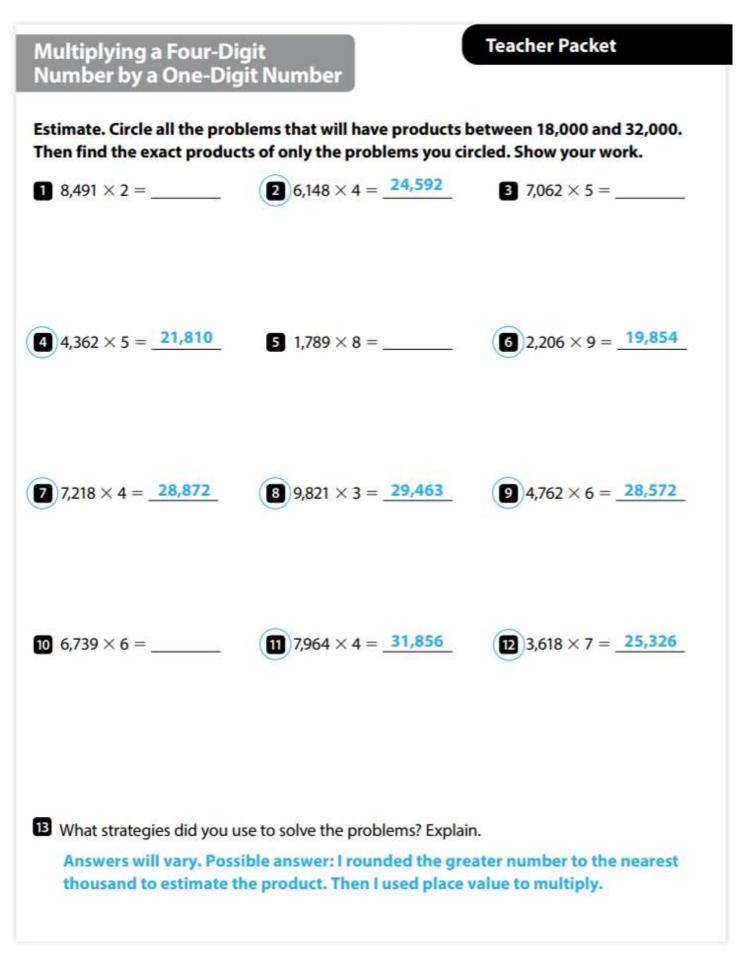
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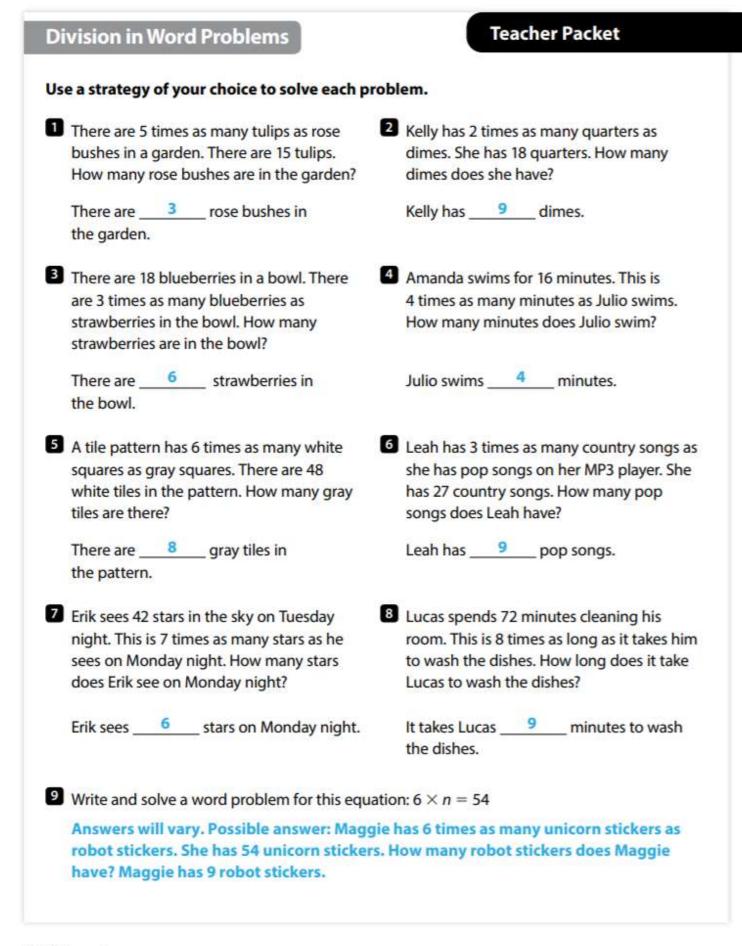
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Comparing Multi-Digit Numbers	Teacher Packet				
Set A					
Write the symbol that makes each statement true. Use >	>, <, or =.				
<b>1</b> 23,230 <u>&gt;</u> 2,323 <b>2</b> 33,003 <u>&lt;</u> 33,030	3 9,999 10,000				
4 40,404 > 40,040 5 52,177 < 52,771	6 421,073 > 412,730				
Set B					
7 Circle all the numbers that are less than 78,265.					
78,000 79,000 70,000 80,000	78,200 78,300				
8 Circle all the numbers that are less than 45,763.					
46,000 40,000 50,000 45,700	45,800 45,000				
9 Circle all the numbers that are greater than 108,427.					
108,000 108,400 108,500 109,000	108,430 108,420				
10 How did you solve problem 7?					
Answers will vary.	C. Kaka distances the				
Possible answer: I compared each number with 78,265. If the digits were the same in the ten-thousands place, I compared the digit to the right. I repeated this until I					
could tell if the number was less than 78,265.					

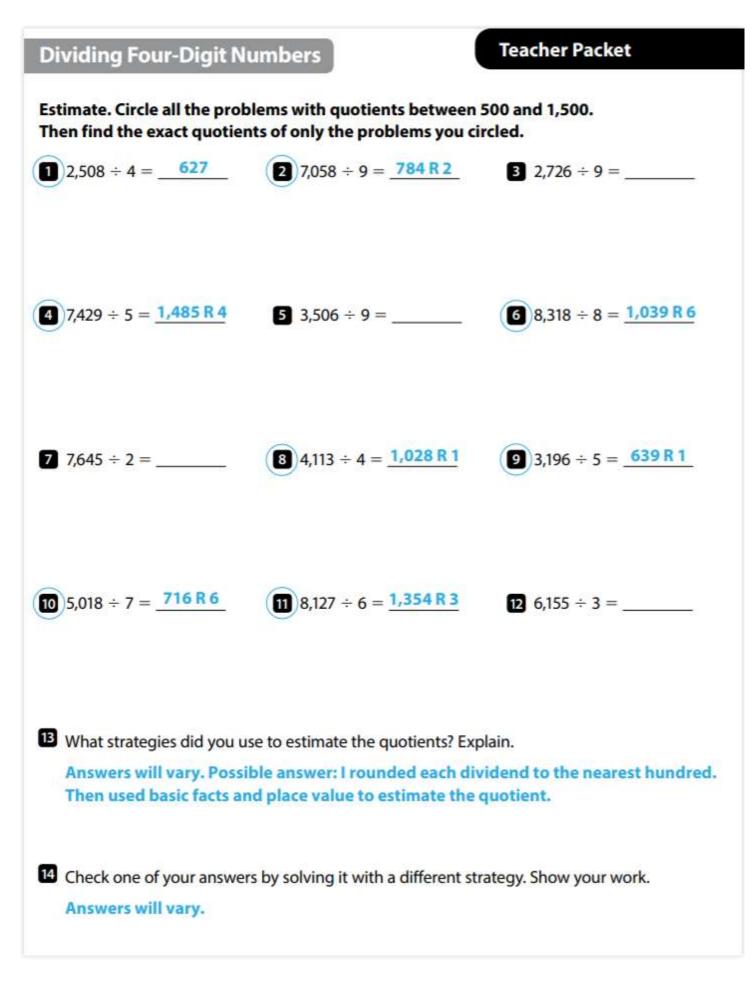
	2 Paul runs 2 laps around the gym. Carrie
It has 4 times as many fiction books on	runs 6 times as many laps as Paul. How
another shelf. How many fiction books are on the shelf?	many laps does Carrie run?
There are <u>20</u> fiction books on the shelf.	Carrie runs <u>12</u> laps.
Violet has 3 markers. She has 6 times as	4 Owen draws 7 comics in April. He draws
many colored pencils as markers. How many colored pencils does she have?	3 times as many comics in May. How man comics does Owen draw in May?
Violet has <u>18</u> colored pencils.	Owen draws 21 comics in May.
Tasha used 8 tomatoes to make salsa. She used 4 times as many tomatoes to make sauce. How many tomatoes did Tasha use to make sauce?	6 There are 7 pear trees on a farm. There are 7 times as many apple trees as pear trees How many apple trees are on the farm?
Tasha used <u>32</u> tomatoes to make sauce.	There are <u>49</u> apple trees.
There are 9 school buses in the parking lot.	8 There are 8 vases at an art show. There ar
There are 6 times as many cars as school	9 times as many paintings as vases at the
buses in the parking lot. How many cars are in the parking lot?	art show. How many paintings are at the art show?
There are <u>54</u> cars in the parking lot.	There are <u>72</u> paintings at the art show.
Write and solve a word problem for this equat	tion: $5 \times 6 = ?$
Answers will vary. Possible answer: There a	
as many white hens as brown hens. How m There are 30 white hens.	any white hens are there?

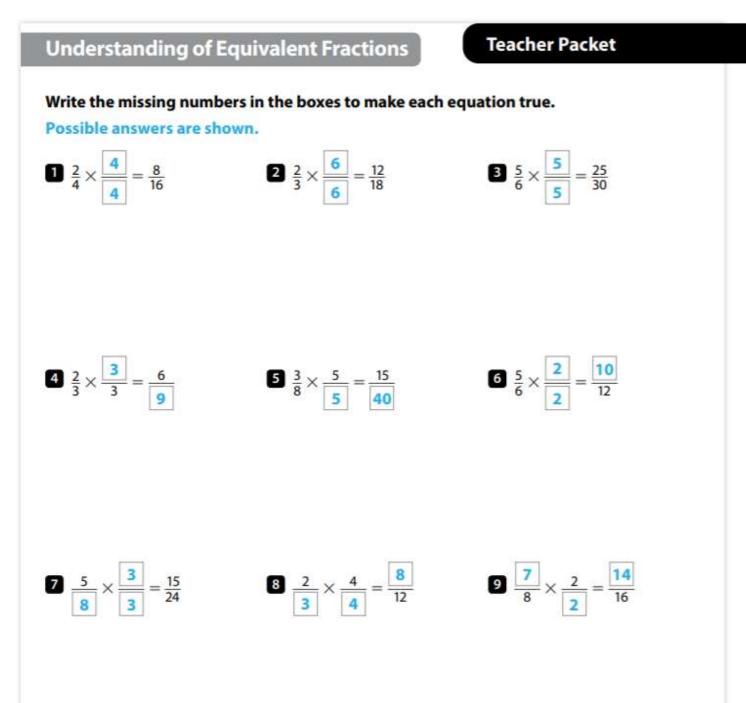
i-Ready





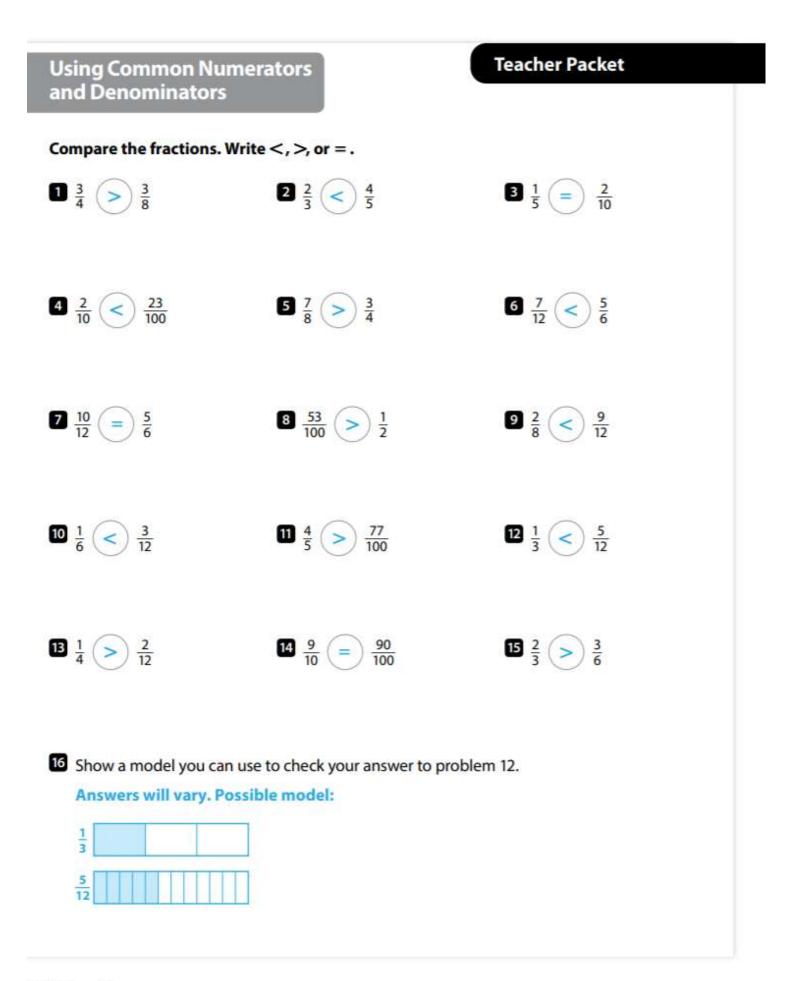






10 Which strategies did you use to solve the problems? Explain why.

Answers will vary. Possible answer: I looked at the numbers I was given. If I knew two numbers for the numerators I could use multiplication facts to figure out the third number, or apply the same strategy to the denominators. Then, since the second fraction should have the same numerator and denominator, I can use that information to fill in the other boxes.



Activity Answer Keys

4.23	4.24
Check Understanding	Check Understanding
28,742	768
Recording Sheet	Recording Sheet
Row 1: 14,418; 2,064	<i>Row 1:</i> 504; 483; 560
Row 2: 1,392; 20,115	<i>Row 2</i> : 946; 561; 800
Row 3: 14,316; 1,473	<i>Row 3</i> : 528; 510; 312
4.25	4.26
Check Understanding	Check Understanding
816 R 1	1,114 R 1
Recording Sheet	Recording Sheet
Row 1: 68 R 2; 362 R 4; 129 R 1	<i>Row 1:</i> 613 R 2; 56
<i>Row 2</i> : 514 R 6; 91 R 7; 739 R 5	<i>Row 2</i> : 68 R 1; 854
Row 3: 319; 1,129 R 3; 26 R 8	<i>Row 3</i> :118; 162 R 3
4.15	4.18
Check Understanding	Check Understanding
70,000	13,754 > 13,732
Recording Sheet	Recording Sheet
Row 1: 200; 65,245	Sample answer: 76,211 > 75,433
6,000; 246,039	
900,000; 943,704	
Row 2: 50; 190,358	
30,000; 34,512	
100; 2,136	
Row 3: 80,000; 784,823	
7,000; 267,801	
40,000; 142,633	