

SHADY SIDE ACADEMY

Dear Fourth Grade Families,

Congratulations to your child for completing a full year of math learning! It was a busy year. While sometimes fun and challenging, every student worked hard and grew as a mathematician. In order to support the children on their journey into fifth grade, we have put together a packet that reinforces the skills covered this year.

The purpose of this packet is for your rising fifth grader to maintain their skills over the summer. You and your child may decide the areas that may need revisited and create a schedule to sustain learning and practice over the summer. While the completion of this packet is not mandatory, it is strongly suggested.

In third grade we covered the following concepts:

- Place value of whole numbers
- Estimation and number theory
- Whole number multiplication and division
- Line graphs
- Probability

- Fractions and mixed numbers
- Decimals
- Adding and subtracting decimals
- Perpendicular and parallel lines
- Squares and rectangles
- Area and perimeter

In addition to the math packet, the children may also benefit from these additional resources:

Summer Bridge Books

Bridge books are a good way to practice pencil-to-paper skills as well as to keep a record of what concepts have been covered. Often, if children are able to pick books that interest them, they are more likely to be engaged in summer work. There are a variety of versions available, and one highly recommended series is published by Brain Quest.

On-line Resources

Games are always a great way to practice skills, especially those that need to be memorized. Below are several resources that we have found helpful.

IXL.com- The free or paid version are both valuable.

ABCya.com- fun colorful games for all grades

Splash Math- The rising fifth graders will need a username and password to access this site. Please reach out to me via email, if you need this information.

Sheppard Software- exciting and interactive games for all subjects and grade levels.

I hope you have a wonderful summer!

Sincerely, Michael Commendatore Fifth Grade Teacher Name: _

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C	Cumulative Review				
	for Ch	apters 1 and 2			
Con	icepts ar	nd Skills			
Write	e each num	ber in standard form. (Lesson 1.1)			
1.	forty-eight	thousand, six			
2.	one hundre	ed thousand			
3.	sixty-nine t	housand, two hundred eleven			
Write	e each num	ber in word form. (Lesson 1.1)			
4.	53,900				
5.	16,658				
6.	20,306				

Fill in the blank to write the number in expanded form. (Lesson 1.1)

7. $13,901 = 10,000 + \dots + 900 + 1$

Fill in the blanks. (Lesson 1.2)

8. 100 more than 26,542 is _____.

9. _____ is 100 less than 79,023.

Circle	the numbe	er that is g	reater. (Le	sson 1.2)				
10.	12,630	or 6,238		11.	45,200	or	45,496	
12.	62,529	or 69,522		13.	90,236	or	87,415	
Circle	the numbe	er that is le	ess. (Lesson	1.2)				
14.	6,563 or	48,200		15.	67,186	or	67,254	
16.	74,258	or 71,852		17.	96,125	or	69,521	
Write	the set of	numbers ii	n order fro	m least t	o greates	st. (L	esson 1.2)	
18.	8,654	56,207	68,543	56,71	19			
Contin	nue or com	plete each	number p	attern. (l	Lesson 1.2)			
19.	11,500	11,000	10,500					
20.	63,800	64,100	64,400					

Find each sum or difference. Then use rounding to check that your answers are reasonable. (Lesson 1.3 and 2.1)

22.	522	23. 456	24. 4, 5 6 2
	<u> </u>	+ 790	<u> </u>

Name: __

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Date: _

Find each sum or difference. Then use front-end estimation to check that your answers are reasonable. (Lesson 1.3 and 2.1)

25.	1,376	26.	7,496	27.	432
	+ 3, 4 2 8		- 829		+ 759

Find each product. Then use rounding to check that your answers are

reasonable. (Lesson 2.1 and 2.4)

28.	383	29. 241	30.	752
	\times 2	\times 4		\times 5
		en use front-end estima		
your	answers are reas	conable. (Lesson 2.1 and 2.4)		
31.	308	32. 126	33.	415
	\times 3	<u>× 5</u>		\times 4

Find each quotient. Then use related multiplication facts to check that your answers are reasonable. (Lesson 2.1)

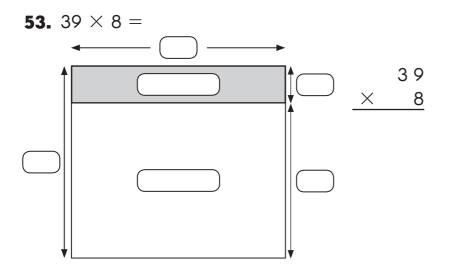
34. 4)92 **35.** 3)78 **36.** 4)68

Find the factors of each number. (Lesson 2.2)

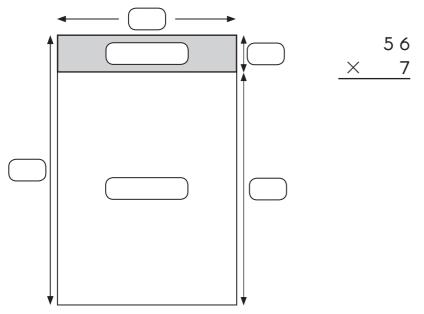
35.	36
36.	40
37.	96
Find t	the common factors of each pair of numbers. (Lesson 2.2)
	36 and 40
39.	40 and 96
	the greatest common factor of each pair of numbers. (Lesson 2.2) 30 and 16
41.	 48 and 18
Find t	the prime and composite numbers. (Lesson 2.2)
	47 31 92 63 57 135
42.	The prime numbers are
43.	The composite numbers are

Name:	Date:
List th	e first eight multiples of each number. (Lesson 2.3)
44.	4
45.	6
46.	9
Find t	he first two common multiples of each pair of numbers. (Lesson 2.3)
47.	4 and 6
48.	6 and 9
Find t	he least common multiple of each pair of numbers. (Lesson 2.3)
49.	8 and 12
50.	27 and 36
Solve	using an array model. (Lesson 2.4)
51.	$15 \times 7 =$ 52. $6 \times 14 =$

Solve using an area model. (Lesson 2.4)



54. 56 × 7 =



Problem Solving

Solve. Show your work.

55. Make a 5-digit number using these clues. The digit in the thousands place is 5. The value of the digit in the ten thousands place is 20,000. The digit in the tens place is 8. One of the digits is a 0 and it is next to the digit 8. The digit in the ones place is 2 less than the digit in the tens place. The number is ______, _____.

56. 3,219 milliliters of water and 185 milliliters of orange syrup are mixed to make orange juice. About how much orange juice will there be?

57. An empty parking lot has 300 spaces.215 cars and 89 SUVs drive into the parking lot.How many vehicles do not have parking spaces?

58. Find a 2-digit number less than 50 using these clues. It can be divided by 4 exactly. When 4 is added to it, it can be divided by 5 exactly.

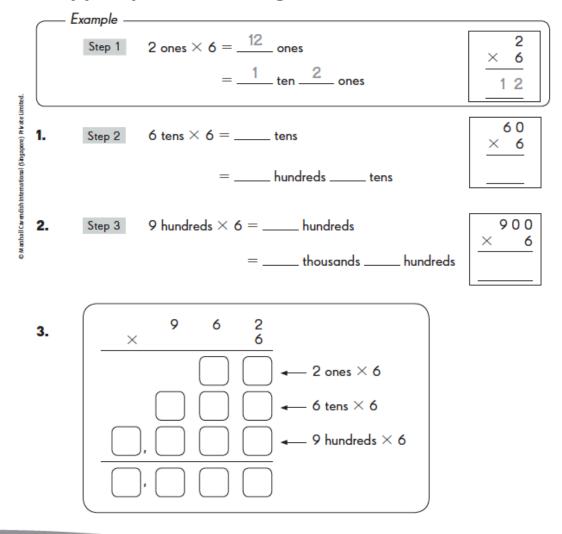
is		
	is	is

59. Finch divides 12 peaches and 18 nectarines into the same number of equal groups. How many possible groups of each fruit can he make? How many are in each group?



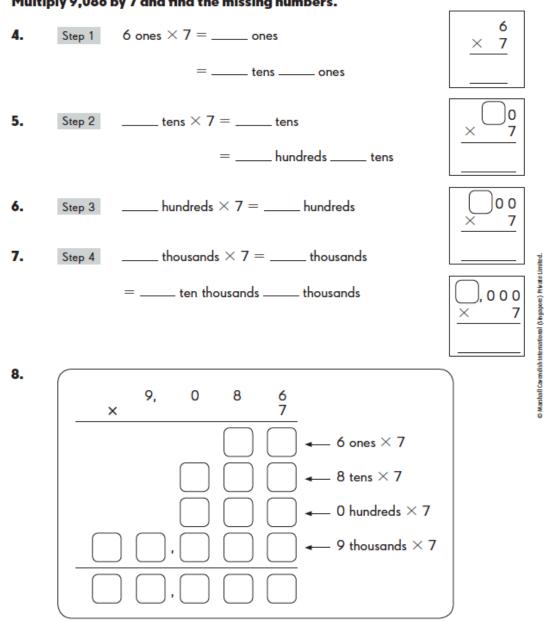
Practice 1 Multiplying by a 1-Digit Number

Multiply 962 by 6 and find the missing numbers.



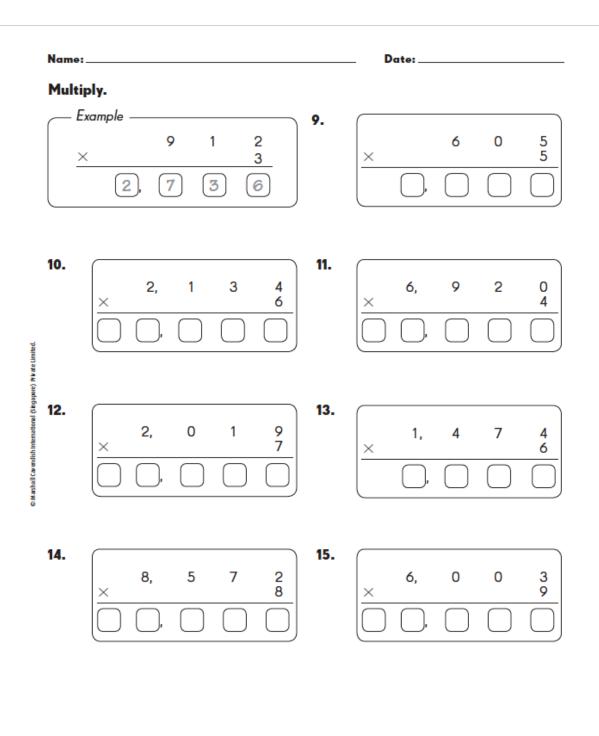
Lesson 3.1 Multiplying by a 1-Digit Number

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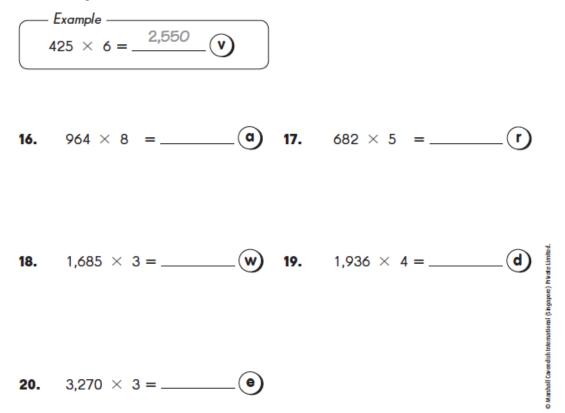


Multiply 9,086 by 7 and find the missing numbers.





Find each product. Then solve the riddle.



How do you say good-bye to the ocean? Match the letters to the answers below to find out.

You		V	
5,055	7,712	2,550	9,810

Practice 2 Multiplying by a 2-Digit Number

Write the missing numbers. Then solve the riddle.

_	Example		
	$15 \times 10 = 150$		63 × 10 = <u>630</u>
1.	$5 \times 60 = 5 \times \tens$ 2	2	$16 \times 20 = 16 \times \underline{\qquad}$ tens
	= tens		= tens
	= n		=i
3.	$33 \times 40 = 33 \times _$ tens 4		$29 \times 30 = 29 \times _$ tens
mited.	= tens		=tens
ore) Private Li	=()		= U
© M ashhil Car endish international (Singapore). R vase Limited.	$41 \times 60 = 41 \times ___ \times 10$ 6		$96 \times 40 = 96 \times ___ \times 4$
sh interna	=× 10		= × 4
shall Car endi	= B		=(j)
7.	618 × 50 8	-	752 imes 70
	= 618 × × 10		= 752 × × 7
	= × 10		= × 7
	=0		= d
	What is the French word that has the so Match the letters to the products below		-
	2,460 30,900 300 3,840 3	80,9	00 870 150

Lesson 3.2 Multiplying by a 2-Digit Number 5

Find each product.

9.	42 × 10 =	10.	786 × 10 =
11.	16 × 5 =	12.	137 × 6 =
	16 × 50 =		137 × 60 =
13.	23 × 4 =	14.	405 × 9 =
	23 × 40 =		405 × 90 =

Find each product.

15.	70 imes 800
	7 × 8 =
	7 × 80 =
	7 × 800 =
	So, 70 $ imes$ 800 =

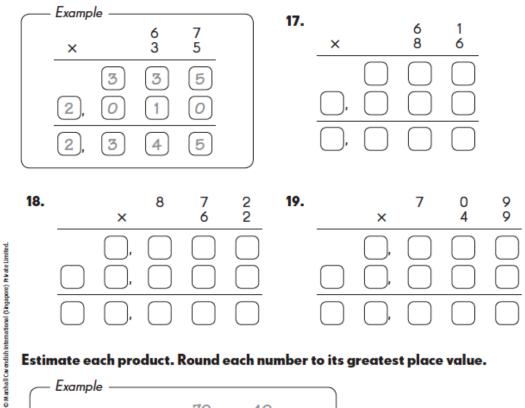
16. 300 × 90

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Date:

Multiply. Find the missing numbers.

Name: _



Estimate each product. Round each number to its greatest place value.

- Example			
Example			
67 × 70	35 is abou × <u>40</u>		40

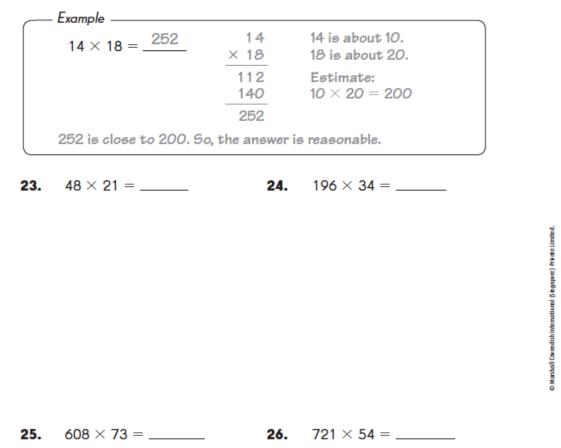
20. 61×86 is about _____ \times _____. ____×____=____

21. 872×62 is about _____ \times _____. ____×____=____

709 imes 49 is about _____ imes _____. 22. ____×___=____

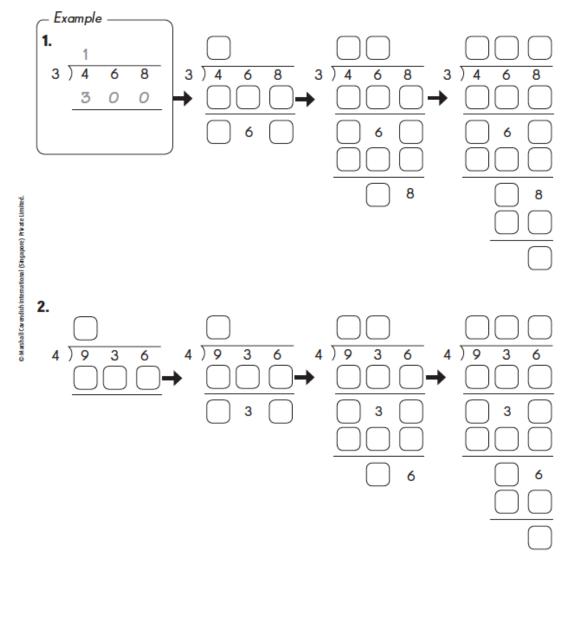






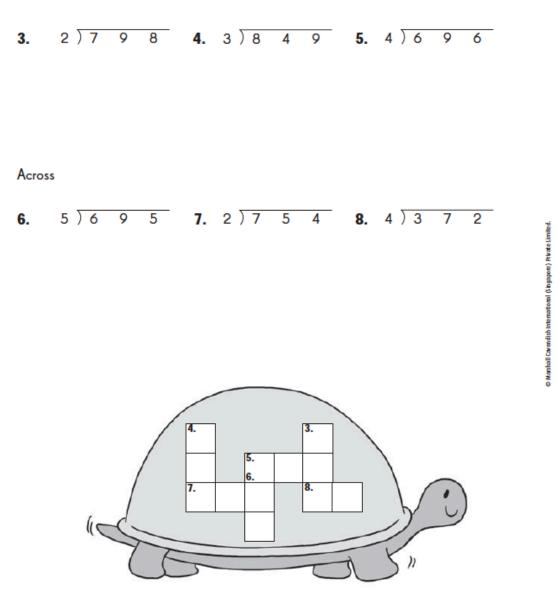
Practice 3 Modeling Division with Regrouping

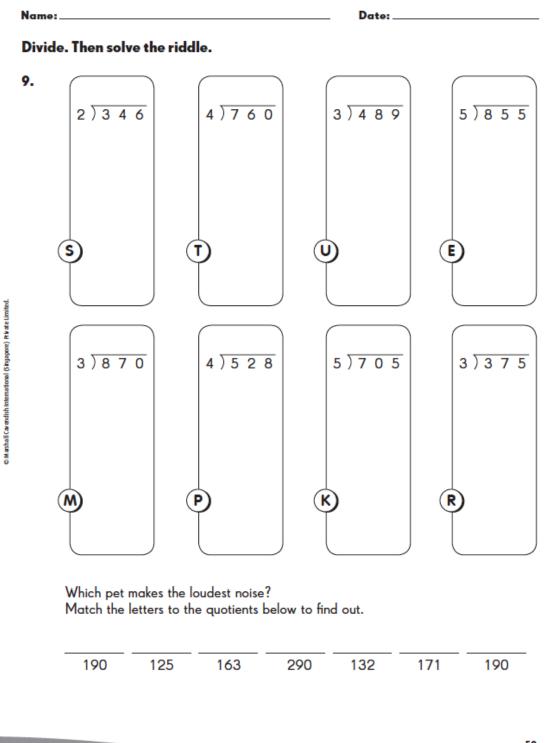
Lisa cannot remember the steps to divide. Help her complete the steps.





Down





Lesson 3.3 Modeling Division with Regrouping 5

59

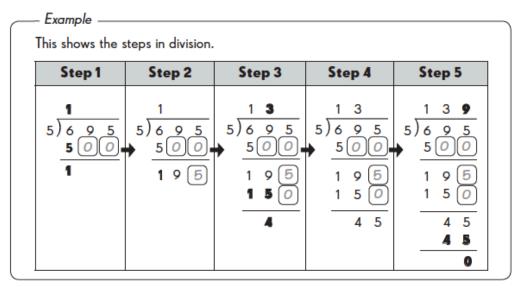
Divide.

10. $510 \div 2 = $ 11. $144 \div 3 = $	10.	516 ÷ 2 =	11. 144 ÷ 3 =
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12. $396 \div 4 =$ **13.** $885 \div 5 =$

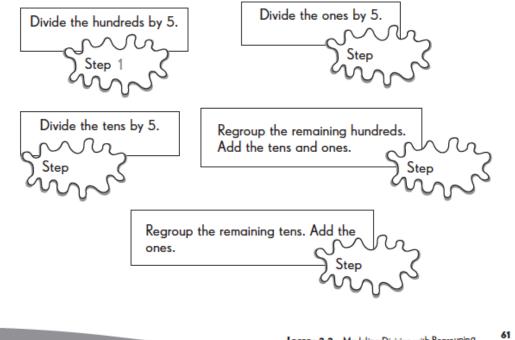
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Look at the steps for dividing a 3-digit number by a 1-digit number.

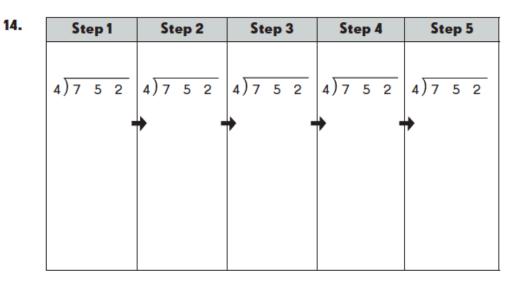


Name:

Write a number for each instruction box to match the instruction with the correct step for division. The first one has been done for you.



Complete the division.



Then write the steps, using the exercise on page 53 as a guide.

Step 1	
Step 2	
Step 3	
0100	
Step 4	
Step 4	
Step 5	
Step 5	

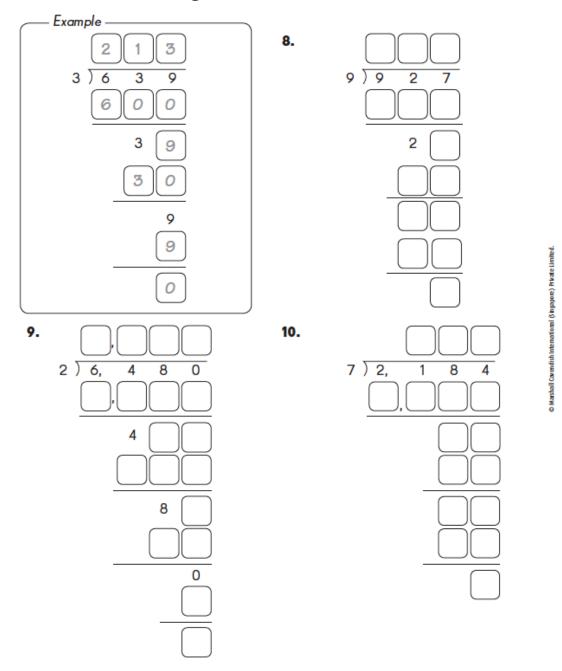
Practice 4 Dividing by a 1-Digit Number

Fill in the blanks to find each quotient.

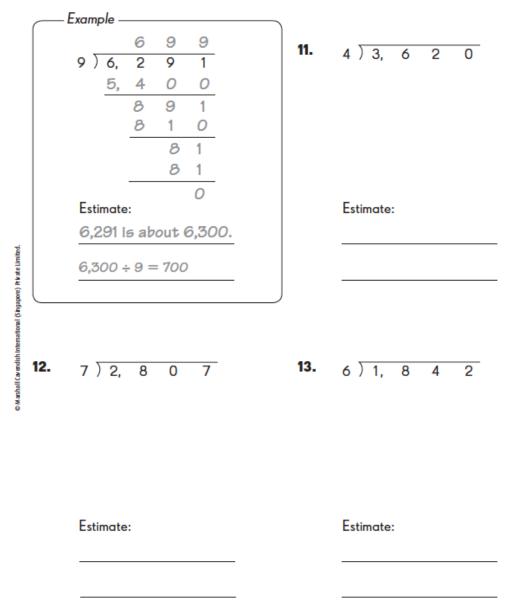
- Example — 4,900 ÷ 7 = <u>49</u> hundreds ÷ 7 = _____ hundreds ____700 $6,000 \div 3 =$ _____ thousands $\div 3$ 1. = _____ thousands © Marshall Cavendish International (Singapore) Private Limited. =_____ 8.000 ÷ 2 = _____ thousands ÷ 2 2. = _____ thousands =_____ 2,400 ÷ 6 = _____ hundreds ÷ 6 3. = _____ hundreds =_____ Estimate each quotient. $64 \div 3$ is about ______ $\div 3$ **5.** $448 \div 9$ is about ______ $\div 9$ 4. =_____ =_____ $763 \div 4$ is about ______ $\div 4$ **7.** $127 \div 5$ is about ______ $\div 5$ 6. = _____ =_____ 63 Lesson 3.4 Dividing by a 1-Digit Number

Name:

Divide and find the missing numbers.



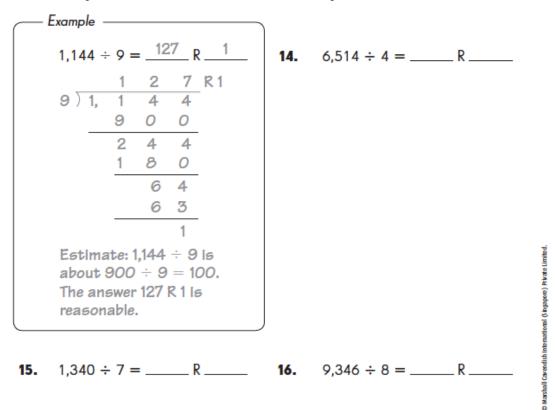
v	αt	e:	 _



Divide. Then estimate to check that your answers are reasonable.

Name:_

Lesson 3.4 Dividing by a 1-Digit Number 65



Find each quotient. Then estimate to check that your answers are reasonable.

Practice 5 Real-World Problems: Multiplication and Division

Solve. Show your work.

Example -

A company has 4,059 people. Their names are listed in alphabetical order and then divided into groups of 5.

How many groups of 5 names are there and how many names are left?

```
4,059 ÷ 5 = 811 R 4
There are 811 groups of 5 names,
and 4 names are left.
```

If the number of men in the company is 600 times the number of names left, how many men are there in the company?

 $600 \times 4 = 2,400$ There are 2,400 men in the company.

Factory A produces 326 sweaters in a day. Factory B produces 107 more sweaters a day than Factory A.

a. How many sweaters does Factory B produce in a day?

b. How many sweaters do the two factories produce in 68 days?



67

Name:

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1.

2. In her shop, Lee had a piece of fabric measuring 150 meters. A customer asked her to sew 10 cushion covers, each requiring 3 meters of fabric. Another customer bought 21 meters of the same fabric. How much fabric does Lee have left?

 A bakery produces 3,000 loaves of bread. The bread is delivered to 75 stores. Of the 75 stores, 67 receive 2,000 loaves of bread altogether. The remaining stores receive an equal number of loaves of bread. How many loaves does each of the remaining stores receive? Name:

Date:

4. Kamala had 5,026 grams of flour in a canister. She bought a 4,157-gram bag of flour. She poured some flour from the bag to the canister. As a result, the mass of the flour in the canister is now twice the mass of the flour left in the bag. How much flour is in the bag now?

5.

Mr. Shea saved \$2,500 in April. His monthly salary is twice the amount he saved in April. In May, he saved a certain amount of money. He spent \$4,200 more than the amount he saved. **a.** How much is his monthly salary?

b. How much did he save in May?

69



Before lunch, Cindy packed 850 oranges, and Glen packed 470 fewer oranges than Cindy. Glen went home after lunch, but Cindy went back to work. That afternoon, Cindy packed 3 times as many oranges as Glen had packed in the morning.

a. How many oranges did Glen pack?

Let s represent the number of oranges Glen packed. 850 - 470 = S s = 380Glen packed 380 errorses

Glen packed 380 oranges.

b. How many oranges did Cindy pack altogether?

Let t represent the number of oranges Cindy packed.

 $t = 3 \times 380 + 850$ = 1,140 + 850

= 1.990

- 1,000

Cindy packed 1,990 oranges.

c. Cindy packed the oranges in bags of 5. How many bags of oranges did Cindy pack?

Let u represent the number of bags Cindy packed.

 $1,990 \div 5 = u$ u = 398

u = 598 Cindy packed 398 bags.

dy packed.

Use different letters to represent the unknown numbers. Then solve.

 Ms. Edstrom has a budget of \$1,500 to spend on a table and 6 chairs. The total price is \$249 under her budget amount. The table costs 3 times as much as a chair. What is the price of the table? Name:_

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Date: _

7. Amy has \$510. Josephine has \$160 less than Amy and \$65 more than Ben. Ben used all his money to buy some books for \$9 each.
a. How much does Josephine have?

b. How much money does Ben have?

c. How many books did Ben buy?

d. How much does he have left?

Lindsay and Menon have 1,240 stickers. Menon has 4 times as many stickers as Lindsay. Menon decides to have 6 stickers on each page of an album.
 a. How many stickers does Menon have?

b. After Menon fills some pages in the album, how many stickers are left over?

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c. How many stickers does he need to complete one more page?

Date:_____

Name: ___



Look at each problem. Use estimation to explain why the answers are not reasonable.

Example 5,268 × 8 = 2,144 Explain. 5,268 is about 5,000 5,000 × 8 = 40,000. So the answer is too small.

1. 725 × 6 = 700 Explain.

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2. 497 × 21 = 1,291

Explain.

Use estimation to explain why the answer is not reasonable.

3. 6,021 ÷ 3 = 207

Explain.

Solve. Show your work.

4. Look at the number sentence.

72 ÷ 6 = 12

How would you use this to find the missing quotient?

7,200 ÷ 6 =

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Charlie has 1,243 stamps. He gives away 12 stamps. His father gives him 415 stamps. He divides as many stamps as possible equally among 4 albums.

How many stamps did he place in each album?



2. Based on your answer in **Exercise 1**, how many stamps are left over?



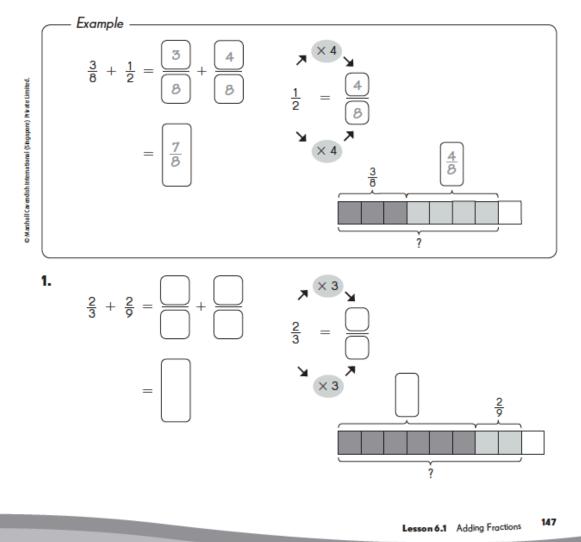
 The cost of 2 televisions and 3 DVD players is \$1,421. The cost of 1 DVD player is half the cost of 1 television. What is the cost of 1 television?

76 Chapter 3 Whole Number Multiplication and Division

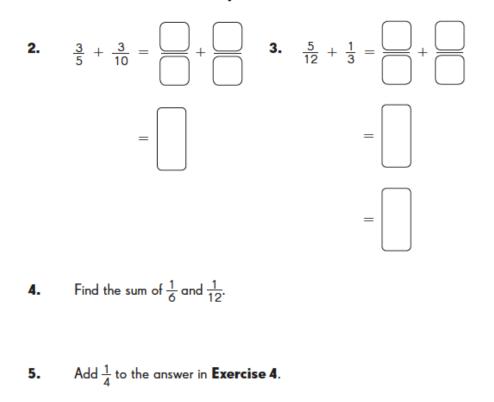


Practice 1 Adding Fractions

Find the equivalent fraction. Complete the model. Then add.



Add. Write each answer in simplest form.



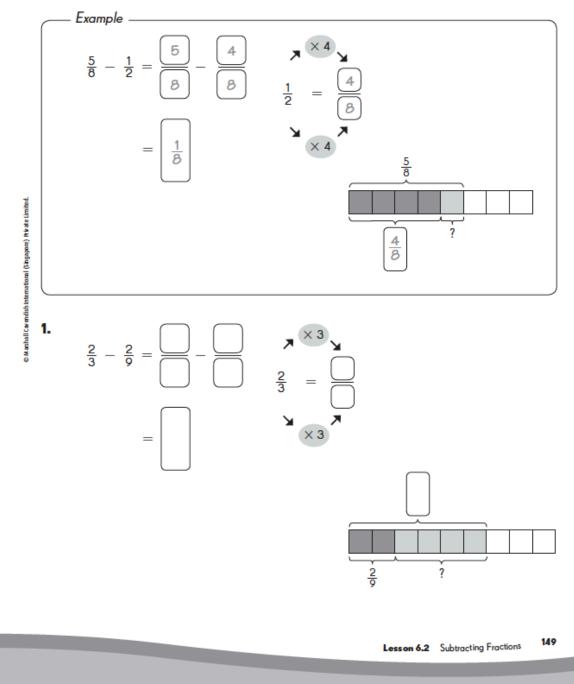
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- 6. What is the sum of $\frac{1}{8}$, $\frac{1}{4}$, and $\frac{3}{8}$?
- 7. Add $\frac{1}{3}$, $\frac{3}{12}$, and $\frac{5}{12}$.

Date:

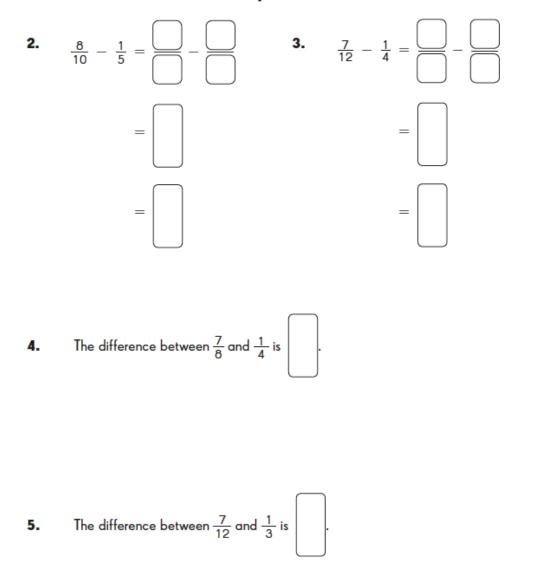
Practice 2 Subtracting Fractions

Find the equivalent fraction. Complete the model. Then subtract.



Name:

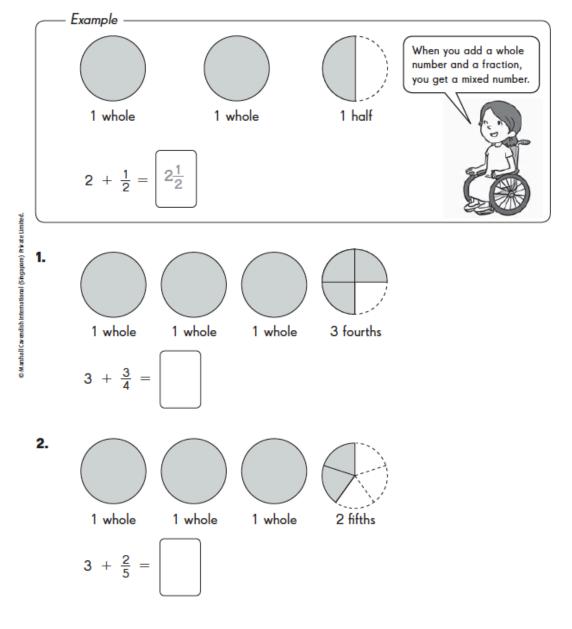
Subtract. Write each answer in simplest form.



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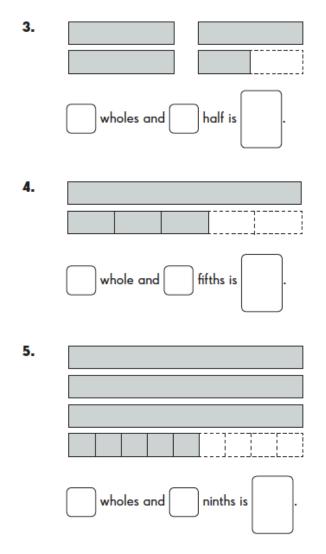
Practice 3 Mixed Numbers

Write a mixed number for each model.

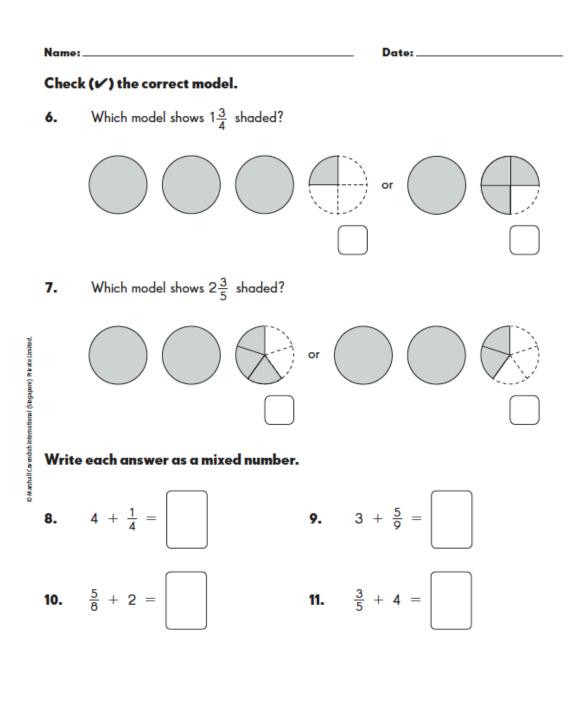


Lesson 6.3 Mixed Numbers

Write a mixed number for each model.



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Lesson 6.3 Mixed Numbers 15

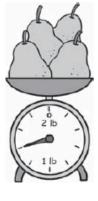
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Write the correct mixed number in each box.

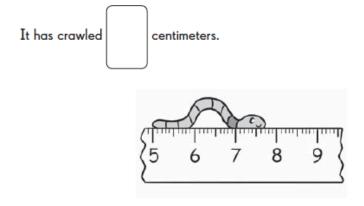
Write a mixed number for each item.

13. The pears have a weight of





14. The worm started crawling from 0 centimeters.



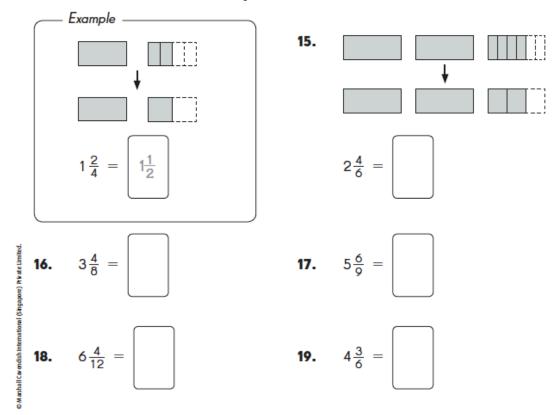
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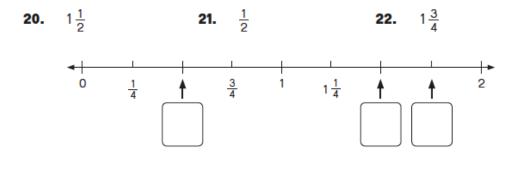
C1	m		
		•	_

Date:

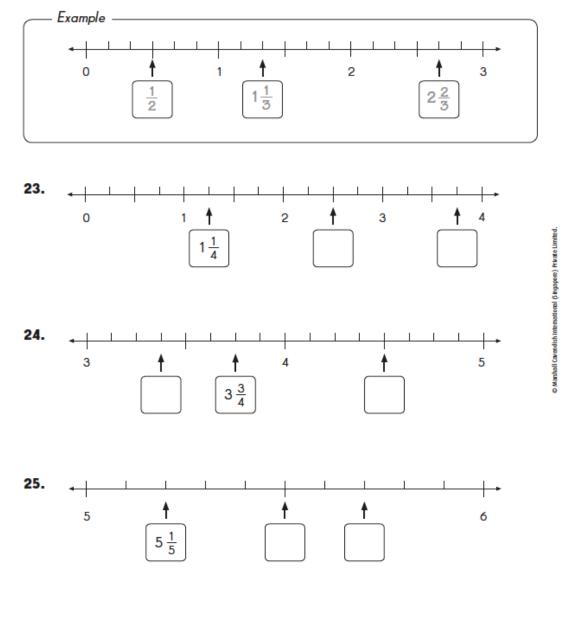
Write each mixed number in simplest form.



Write each fraction and mixed number in a box to show its correct location on the number line.



Fill in the boxes with fractions or mixed numbers. Express each answer in simplest form.

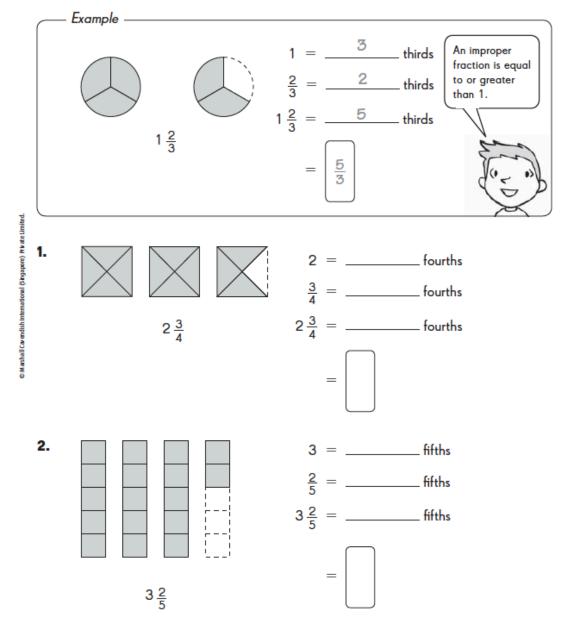


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Practice 4 Improper Fractions

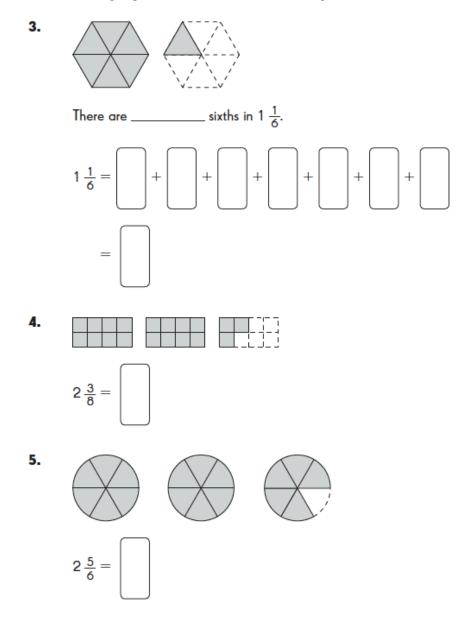
Name:

Write each mixed number as an improper fraction.



Lesson 6.4 Improper Fractions 157

Write the improper fractions for the shaded parts.

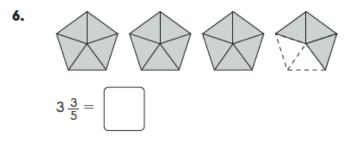


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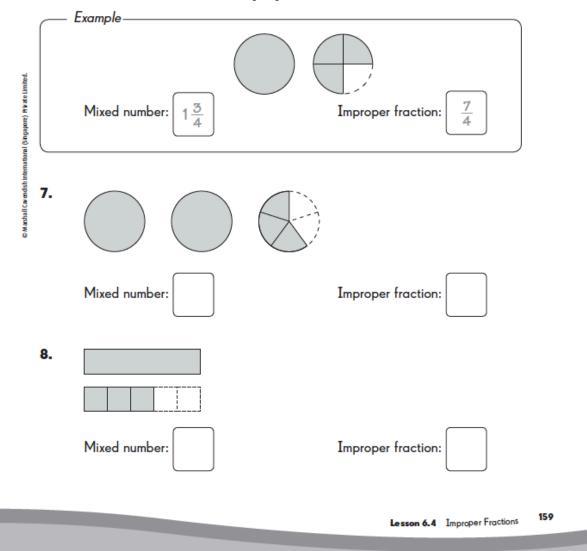
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Name:_

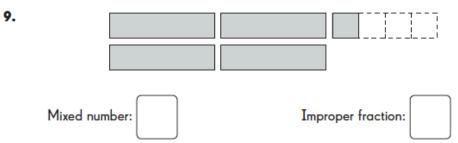
Write the improper fraction for the shaded parts.



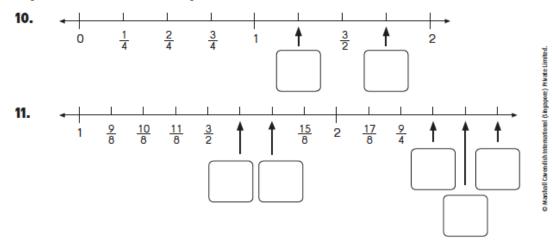
Write a mixed number and an improper fraction for each model.



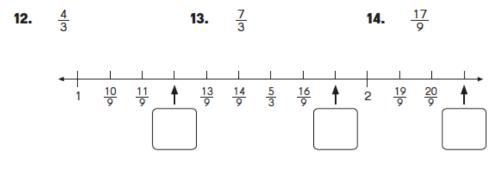
Write a mixed number and an improper fraction for each model.



Write the missing improper fraction in each box. Express the answers in simplest form.



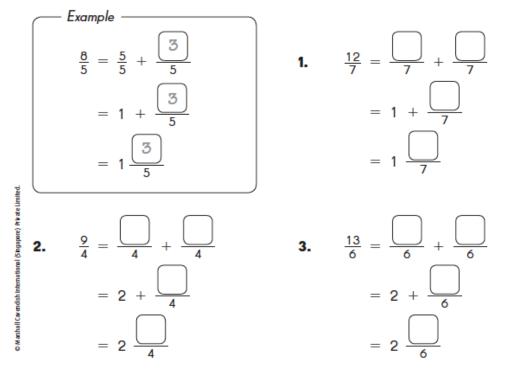
Write each improper fraction in a box to show its correct location on the number line.



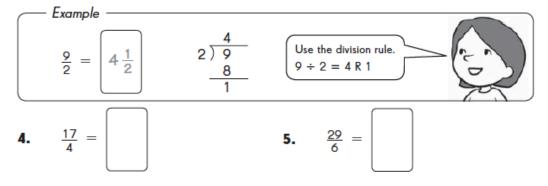
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Practice 5 Renaming Improper Fractions and Mixed Numbers

Express each improper fraction as a mixed number.

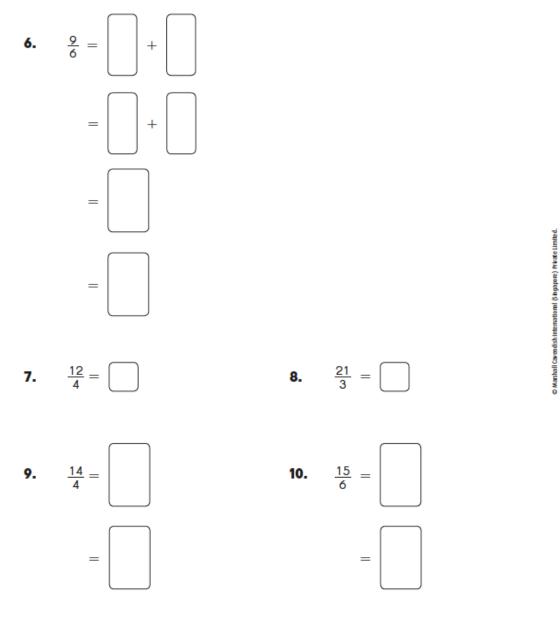


Express each improper fraction as a mixed number.



Lesson 6.5 Renaming Improper Fractions and Mixed Numbers 161

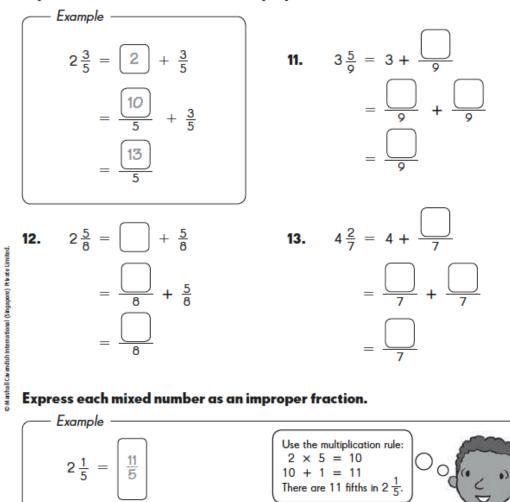
Express each improper fraction as a whole number or a mixed number in simplest form. Show your work.



162 Chapter 6 Fractions and Mixed Numbers

Name:_

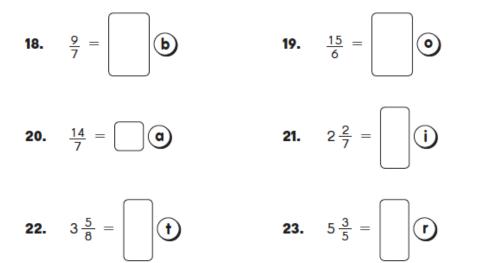
Express each mixed number as an improper fraction.



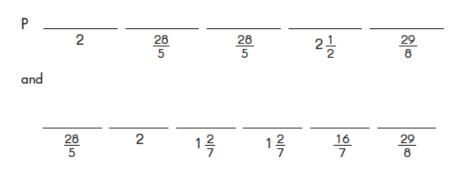


Lesson 6.5 Renaming Improper Fractions and Mixed Numbers 163

Express each mixed number as an improper fraction and each improper fraction as a mixed or whole number. Then solve the riddle.



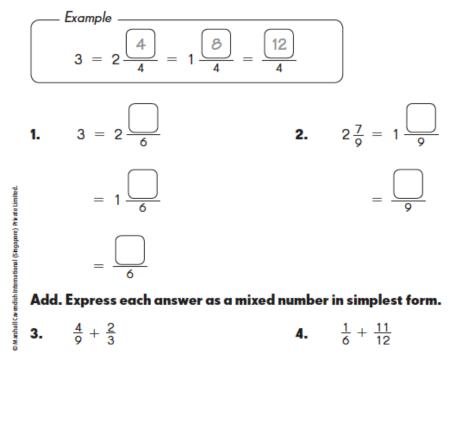
Which two animals can look behind without turning their heads? Write the letters which match the answers to find out.



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Practice 6 Renaming Whole Numbers when Adding and Subtracting Fractions

Fill in the missing numerators.



5. $\frac{1}{4} + \frac{3}{8} + \frac{3}{4}$ **6.** $\frac{4}{5} + \frac{7}{10} + \frac{9}{10}$

Lesson 6.6 Renaming Whole Numbers when Adding and Subtracting Fractions 165

Name:

Subtract. Express each answer as a mixed number in simplest form.

Example		
$2-\frac{1}{3}$		
Method 1	Method 2	
$2 - \frac{1}{3} = \frac{2}{1} - \frac{1}{3}$ $= \frac{6}{3} - \frac{1}{3}$ $= \frac{5}{3} = 1\frac{2}{3}$	$2 \frac{1}{3} 1 \frac{3}{3} \frac{1}{3} \frac{1}{3} \frac{1}{3}$ $1 \frac{2}{3}$	

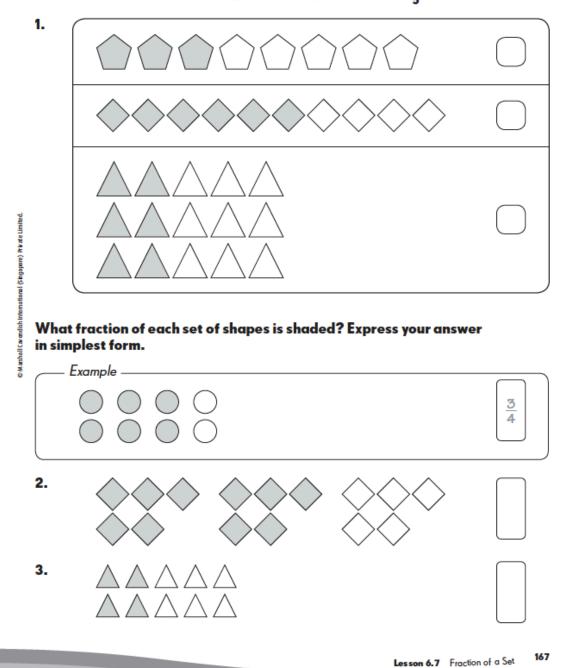
7.
$$3 - \frac{5}{6} - \frac{1}{3}$$
 8. $2 - \frac{1}{4} - \frac{1}{4}$

9.
$$2 - \frac{2}{7} - \frac{3}{14}$$
 10. $3 - \frac{7}{10} - \frac{3}{5}$

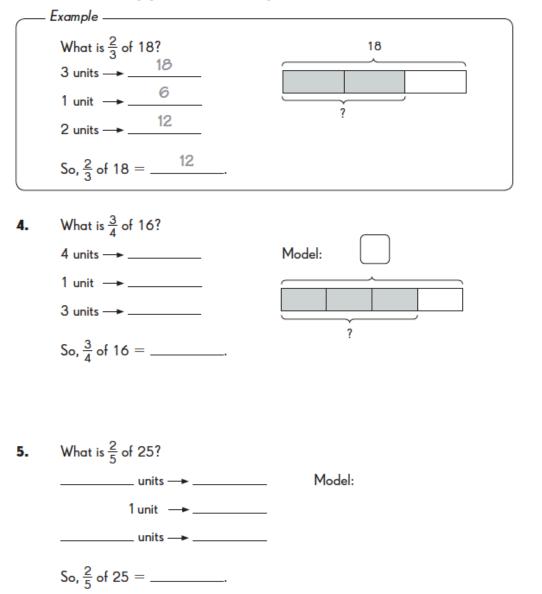
Practice 7 Fraction of a Set

Name:

Check (ν) the box next to the group of shapes that show $\frac{3}{5}$ shaded.



Use a model to help you answer each question.



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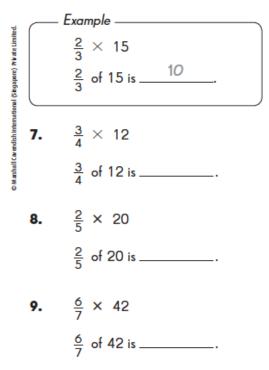
Date:

Name: _

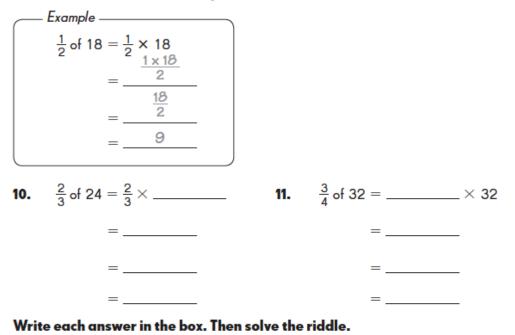
Use a model to help you answer the question.

6. What is ⁵/₆ of 30?
______ units → _____ Model :
1 unit → ______
______ units → ______
So, ⁵/₆ of 30 = _____.

Solve.



Fill in the blanks to solve each problem.



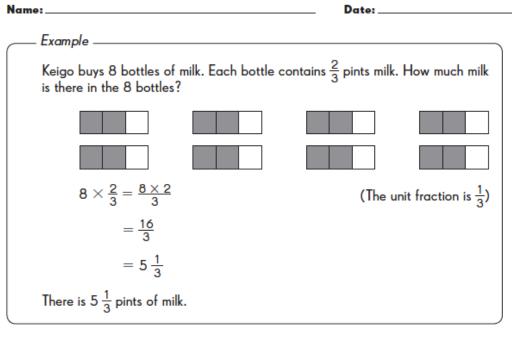
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12. $\frac{1}{4} \times 28 =$... (1)13. $\frac{2}{3} \times 21 =$... (0)14. $\frac{2}{5} \times 50 =$... (0)15. $\frac{3}{4} \times 24 =$... (0)16. $\frac{5}{6} \times 30 =$... (0)17. $\frac{6}{7} \times 35 =$... (1)

Which animals often sleep about 18 to 20 hours a day? Write the letters that match the answers to find out.



170 Chapter 6 Fractions and Mixed Numbers

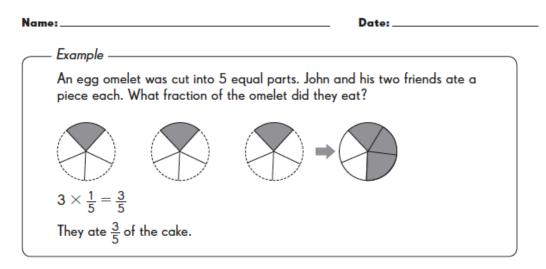


Solve. Draw models.

18. Georgina has 9 bags of shaved coconut. Each bag weighs $\frac{1}{2}$ pound. What is the total weight of the bags?

19. Brandon buys 5 cans of paint. He uses $\frac{1}{4}$ gallon of each can of paint. How much paint did he use?

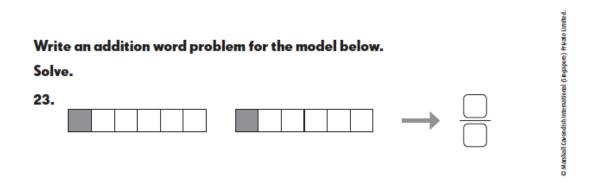
20. A shop sold 3 truck loads of hay. Each truck had $\frac{2}{5}$ ton of hay. How much hay was in the 3 trucks?



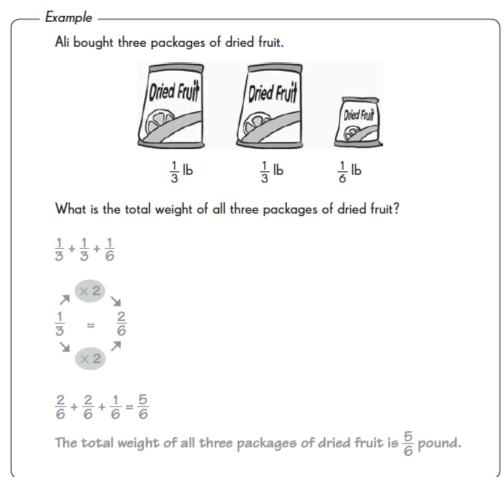
21. A loaf of bread was cut into 10 slices. Jordon, Mandy, Alex, Alving, and Kris ate one piece each. What fraction of the loaf of bread did they eat?

Lesson 6.7 Fraction of a Set 173

22. A strip of paper was cut into 8 pieces. Some of the pieces were painted. Two of the pieces were painted red and 3 of the pieces were painted green. What fraction of the paper was painted?



Practice 8 Real-World Problems: Fractions Solve. Show your work.



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Lesson 6.8 Real-World Problems: Fractions 175

Name:

Solve. Show your work.

Jim had three waffles.
 He ate ¹/₆ of one waffle, and ²/₃ of another waffle.
 How many waffles were left?

 A grocery store has 5 pounds granola. One customer buys ²/₃ pound granola and another buys ⁵/₆ pound. After these purchases, how much granola is left? Name:

Date:

3. Karen jogs ¹/₂ mile. Selma jogs ¹/₄ mile more than Karen. Lena jogs ³/₄ mile more than Selma. How far does Lena jog?

4.

- Jeremy has 18 marbles. He loses 6 of them.
 - a. What fraction of the marbles does he lose?
 - **b.** What fraction of the marbles does he have left?



- 5. Mrs. Yan buys 4 red tulips and 5 yellow tulips.
 - a. What fraction of the tulips are red?
 - **b.** What fraction of the tulips are yellow?

- 6. Charles owns 3 cats, 4 goldfish, and some parakeets. Altogether, he has 10 pets.
 - a. What fraction of his pets are goldfish?
 - **b.** What fraction of his pets are parakeets?

- 7. Rick had \$20. He spent \$10 on food, \$6 on a movie ticket, and saved the rest.
 - a. How much money did he save?
 - **b.** What fraction of the total amount did he save?

8. There are 24 boys in a class, and $\frac{2}{3}$ of the students in the class are boys. How many students are girls?

Name:

9. One morning, The Shirt Shop sold 15 T-shirts. Of the T-shirts sold, $\frac{1}{5}$ were gray. The rest were white. How many white T-shirts were sold?

- 10. A chef bought some green and red peppers. She bought 18 green peppers, which was $\frac{3}{4}$ the total number.
 - a. How many red peppers did she buy?
 - b. How many peppers did she buy altogether?

Date:

11. There were 25 melons in a box at the grocery store. The store sold $\frac{3}{5}$ of the melons. How many melons were sold?

12. Ava read ¹/₄ of a book on Monday, and ¹/₅ on Tuesday. There are 80 pages in the book. How many pages did she read altogether on both days?

Name:

13. Yulia has \$156. She spent $\frac{3}{4}$ of it on a bag and $\frac{1}{12}$ on a scarf. How much money did she have left?

14. A baker bought some butter. He used 360 grams to make some pastry. This was $\frac{5}{6}$ of the butter he had. How much butter did he buy at first?

Practice 9 Line Plots with Fractions of a Unit

— Example

Karina collected some seeds and measured their lengths in fractions of an inch. She recorded the lengths in a tally chart.

Length (in.)	Tally	Number of Seeds
<u>1</u> 4	////	4
<u>2</u> 4	-##+-11	7
<u>3</u> 4	//	2
1	-++++	5

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Lesson 6.9 Line Plots with Fractions of a Unit

183

Solve.

The table shows the amount of water in some bottles.

Amount of Water (Pints)	Number of Bottles
<u>1</u> 2	5
1	1
1 <u>1</u> 2	3
2	3

13. Draw a line plot to show the data.

Key: 1 🗡 represents 1 bottle.

Name:	Date:
Use the	e data in your line plot. Answer the questions.
14.	How many bottles contain 1 ¹ / ₂ pints of water?
15.	What is the total amount of water in the bottles that contain $\frac{1}{2}$ pint?

16. What is the difference between the bottle with the most amount of water and the bottle with the least amount of water? _____

The tally chart shows the length of some ropes used to tie boxes.

Length of Rope (Yard)	Tally	Number of Pieces of Rope
<u>1</u> 6	//	
$\frac{1}{3}$	////	
$\frac{1}{2}$	/	
<u>2</u> 3	-##	
1	-##+- /	
2	///	

17. Complete the table.

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18. Draw a line plot to show the data.

Key: 1 X represents 1 piece of rope.

Use the line plot to answer the questions.

- 19. How many pieces of ropes are there? _____
- 20. What is the length of the rope which has the most number of pieces of ropes?
- 21. What is the difference in length between the longest piece and the shortest piece of rope? _____

22. What is the total length of the pieces of ropes which are $\frac{1}{3}$ yard long?

23. Rope sells for \$3 per yard. What is the total cost of all pieces that are ¹/₃ yard long? _____

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A class of 20 students each grew a plant in science class. The table shows the heights of the plants after two months.

Height of Plant (ft)	Number of Plants
$\frac{1}{4}$	1
<u>2</u> 4	4
<u>3</u> 4	5
1	3
1 <u>1</u>	?

24. How many plants were $1\frac{1}{4}$ feet tall?

25. Draw a line plot to show the data.

	Line Plots with Fractions of a Unit	187
28.	What is the total height of all the plants which are $\frac{2}{4}$ feet tall?	
27.	What is the difference between the tallest and the shortest plant?	_
26.	What does each 🗶 in your line plot represent?	



Is the model correct? If not, explain why it is wrong. Draw the correct model.

ould have only four parts.	
	-
21	
	21

Correct model:

L Challenging Practice

1. Show $1\frac{1}{4}$ shaded, if 1 whole is made up of 4 squares.

Some of the shading has been done for you.



2. Is the answer of $21 \times \frac{2}{7}$ the same as that of $2 \times \frac{21}{7}$? Show your work.

3. Write a fraction and a whole number that have the same product as the problem below.



Name:



Caroline places five poles A, B, C, D, and E in order along a straight line. The distance between poles A and D is 1 yard. The distance between poles B and C is the same as the distance between poles A and B.

Poles A and B are $\frac{1}{5}$ yard apart.

The distance between D and E is $\frac{7}{10}$ yard.

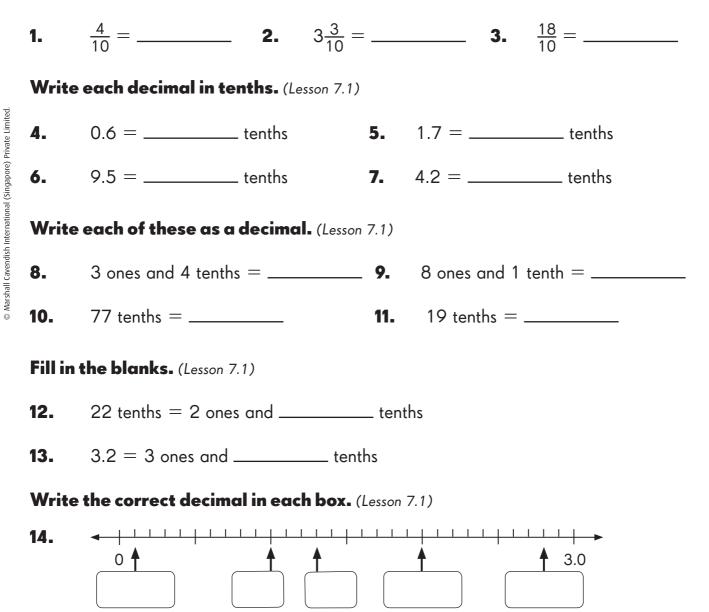
How far apart are poles B and E?



for Chapters 7 and 8

Concepts and Skills

Write each fraction or mixed number as a decimal. (Lesson 7.1)



Complete the expanded form of each decimal. (Lesson 7.1)

15.	5.4 = 5 +	16.	7.1 = 7 +	_
17.	3.6 = 3 +	18.	10.2 = 10 +	
Fill in	the blanks. (Lesson 7.1)			
19.	In 22.3, the digit 3 is in the		place.	

Its value is _____.

Write each fraction or mixed number as a decimal. (Lesson 7.2)

20.	_9	
20.	100	

- **21.** $2\frac{26}{100} =$ _____
- **22.** $\frac{105}{100} =$ _____

Write each decimal in hundredths. (Lesson 7.2)

- **23.** 0.06 = _____ hundredths
- **24.** 1.33 = _____ hundredths
- **25.** 2.5 = _____ hundredths

Write each of these as a decimal. (Lesson 7.2)

- **26.** 2 ones and 6 hundredths = _____
- **27.** 5 tenths 5 hundredths = _____
- **28.** 7 ones and 3 tenths 4 hundredths = _____

Name:			Date:	
Fill in (the blanks. (Lesson 7.	2)		
29.	16 hundredths = 1	tenth	hundredths	
30.	0.45 = 4 tenths	hundred	ths	
	X to show where eq its value. (Lesson 7.2)		ated on the numb	er line.
31.	0.04	32. 0.15	33.	0.26
	∢ ┼┼└└┼┼ 0	0.1	0.2	► 0.3
Comp	lete. (Lesson 7.2)			
34.	5.2 =	ones and	tenths	
35.	0.86 =	_ tenths	hundredths	
36.	3.7 =	tenths		
37.	0.93 =	_ hundredths		
Write	each sum as a deci	mal . (Lesson 7.2)		
38.	7 + 0.6 + 0.02 =	:		
39.	10 + 0.4 + 0.04	=		
40.	$5 + \frac{1}{10} + \frac{8}{100} = -$			
41.	$9 + \frac{3}{10} + \frac{7}{100} = -$			

Fill in the blanks. (Lesson 7.2)

42. In 14.68, the digit 8 is in the _____ place.

 Its value is _____.

Fill in the blanks. (Lesson 7.2)

- **43.** \$0.75 = _____ cents
- **44.** \$12.25 = _____ cents
- **45.** \$8.05 = _____ cents

Write each amount of money in decimal form. (Lesson 7.2)

- **46.** 65 cents = \$_____
- **47.** 10 dollars and 90 cents = \$_____
- **48.** 2 dollars and 5 cents = \$_____

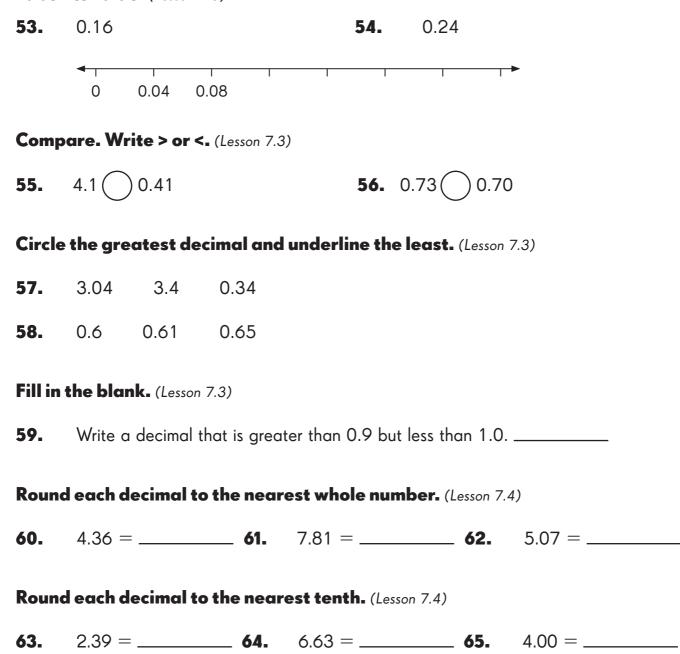
Fill in the blanks. (Lesson 7.3)

- **49.** 0.1 more than 1.1 is _____.
- **50.** 0.2 less than 2 is _____.
- **51.** 0.01 less than 0.1 is _____.
- **52.** 0.03 more than 0.07 is _____.

D	ď	t	e	

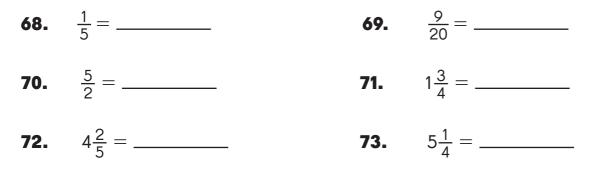
Ν	a	m	0	
	u		С	1

Mark X to show where each decimal is located on the number line. Label its value. (Lesson 7.3)



Write each decimal as a fraction in simplest form. (Lesson 7.5)

Write each fraction or mixed number as a decimal. (Lesson 7.5)



Find each sum or difference. (Lessons 8.1 and 8.2)

74.	6.74	75.	3.28
	+ 2.17	-	⊢ 0.91
76.	5.76	77.	7.05
	+ 4.26	_	- 1.33
78.	8.72	79.	6.36
	- 3.43	-	- 5.79

Problem Solving

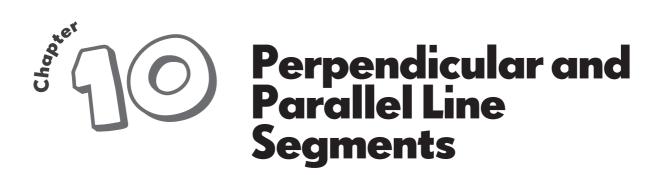
Solve. Show your work. (Lesson 8.3)

80. Lina thinks of a number. When she adds 9.65 to it, she gets 20.7. What number is Lina thinking of?

81. Suri bought a skirt for \$25.90 and a sweatshirt for \$19.90.She paid the cashier \$50.How much change did she receive?

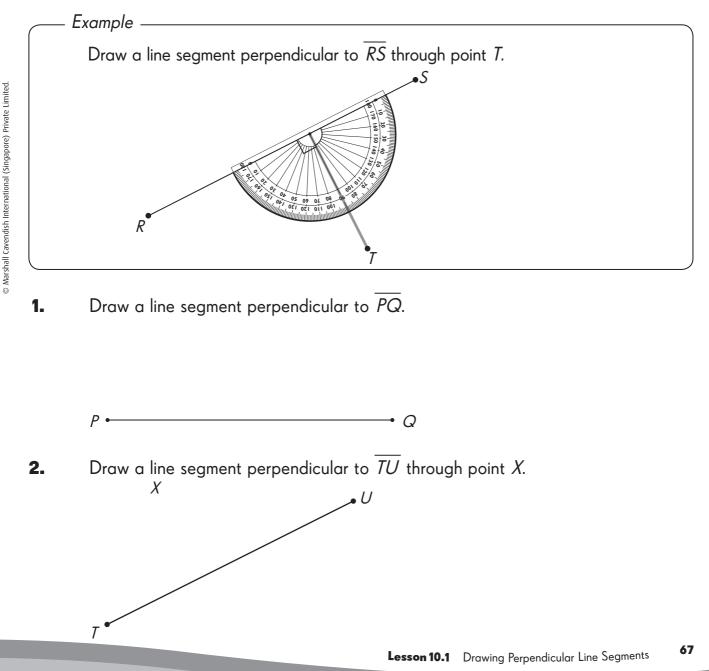
82. Jim bought a pen and a calculator. He paid the cashier \$50 and received \$20.45 change. If the pen cost \$4.50, how much did the calculator cost?

83. A pole is painted white and red. The white part is 0.75 meter long and the red part is 1.45 meters longer. What is the length of the pole?

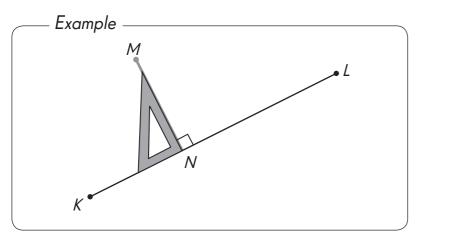


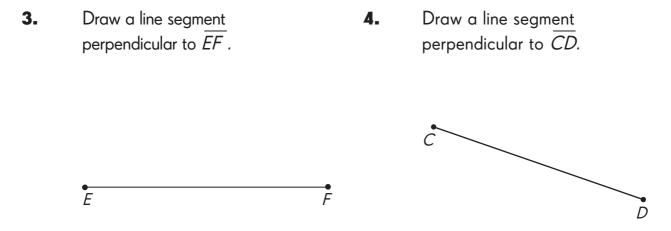
Practice 1 Drawing Perpendicular Line Segments

Use a protractor to draw perpendicular line segments.

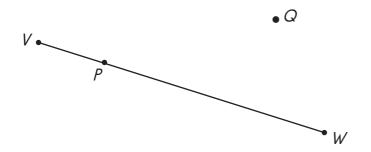






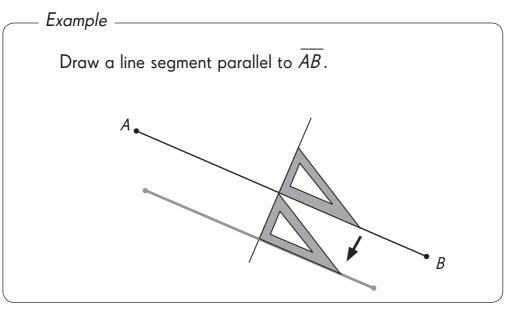


5. Draw a line segment perpendicular to \overline{VW} at point \underline{P} . Then, draw another line segment perpendicular to \overline{VW} through point Q.



Practice 2 Drawing Parallel Line Segments

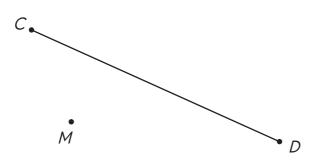
Use a drawing triangle and a straightedge to draw parallel line segments.



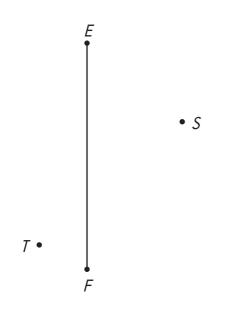
1. Draw a pair of parallel line segments.

Use a drawing triangle and a straightedge to draw parallel line segments.

2. Draw a line segment parallel to \overline{CD} through point *M*.



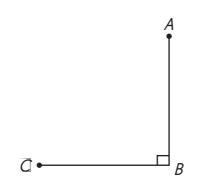
3. Draw a line segment parallel to \overline{EF} through point *T*. Then, draw another line segment parallel to \overline{EF} through point *S*.



Practice 3 Horizontal and Vertical Lines

Answer the questions.

1. \overline{AB} is perpendicular to \overline{BC} .



If \overline{AB} is a vertical line segment, what do you know about \overline{BC} ?

a. *DE* is a vertical line segment. Draw a horizontal line segment through point D and label it *DF*.



E

2.

Complete.

3. a. \overline{MN} is a horizontal line segment. Draw a vertical line segment through point *O* to meet \overline{MN} and label the point *P*.

• 0

b. What do you know about \overline{MN} and \overline{OP} ?

c. How many right angles are formed by MN and OP?

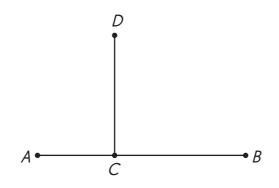
4. *PQ* is a horizontal line segment. Draw a vertical line segment at point *P*. Name it *PR*. Then draw a vertical line segment at point *Q*. Name it *QS*.

b. What do you know about \overline{PR} and \overline{QS} ? Check with a drawing triangle and a straightedge.

Ν	an	1e	: .	

Complete.

5. a. \overline{AB} is a horizontal line segment and \overline{CD} is a vertical line segment. At point *D*, draw a line segment parallel to \overline{AB} . Name it \overline{DE} .

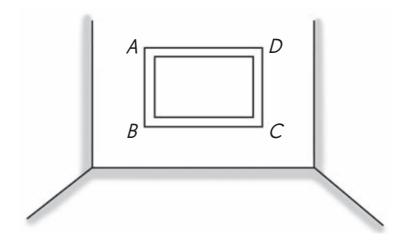


b. What do you know about \overline{CD} and \overline{DE} ?



Complete.

6. *ABCD* is a whiteboard fixed to the wall.



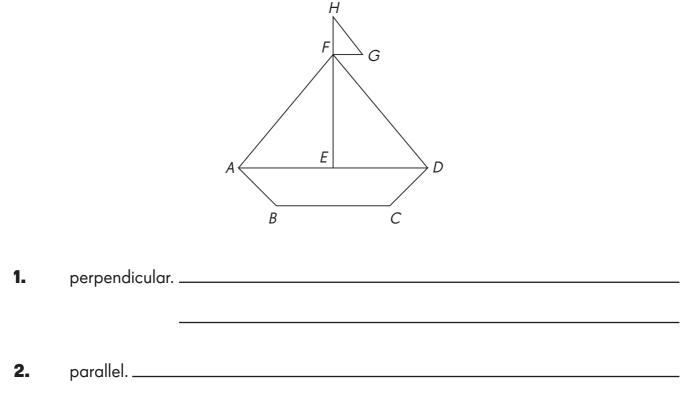
Name the vertical and horizontal line segments on the whiteboard.

Vertical li	ne segments:	
10100011	ne segmenter	

Horizontal line se	aments:	



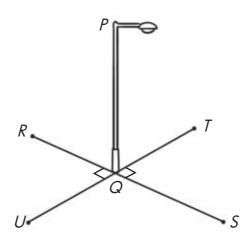
In the figure, use a protractor, drawing triangle, and a straightedge to name three pairs of line segments that are



Solve.

PQ is a lamp post standing vertically on the ground.

 \overline{RS} and \overline{UT} are horizontal line segments on the ground passing through point Q. \overline{QT} is perpendicular to \overline{QS} .



3. Identify two other pairs of line segments that are perpendicular.

4. How many right angles are formed at point *Q*? _____

Date:

The diagram shows a road with parallel curbs JK and LM.

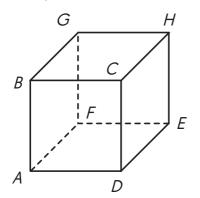


- 1. Danie is standing at point A and Alicia is standing at point B. They both want to cross the road. Use a drawing triangle to draw the shortest route each can take, and mark all the right angles like this ... Measure the distance along each route.
- 2. What do you know about the distance between parallel line segments?

Parallel line segments are always ______ distance apart.

Solve.

The cube is placed on a flat surface.



3. How many vertical line segments are there? _____

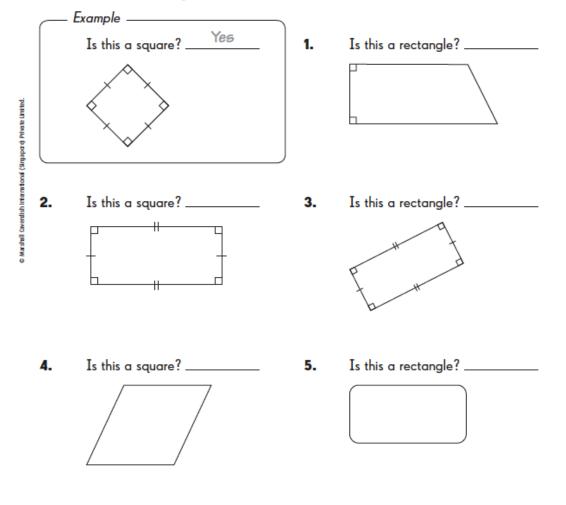
4. How many horizontal line segments are there? _____

5. How many right angles are there? _____



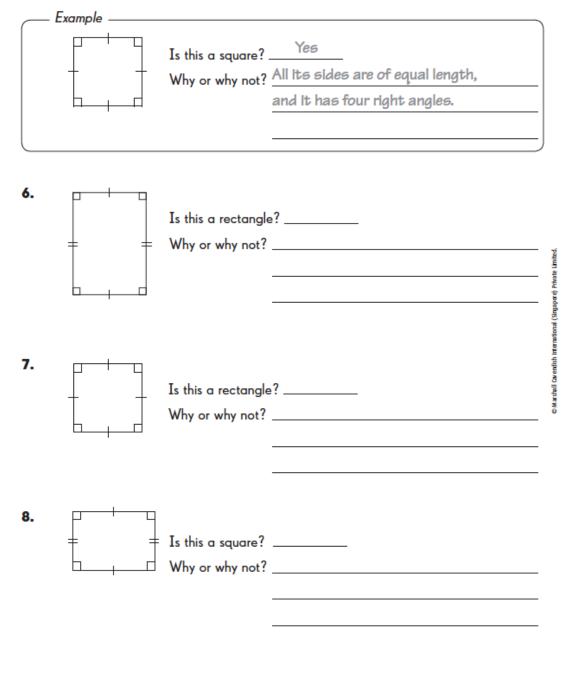
Practice 1 Squares and Rectangles

Fill in the blanks with yes or no.

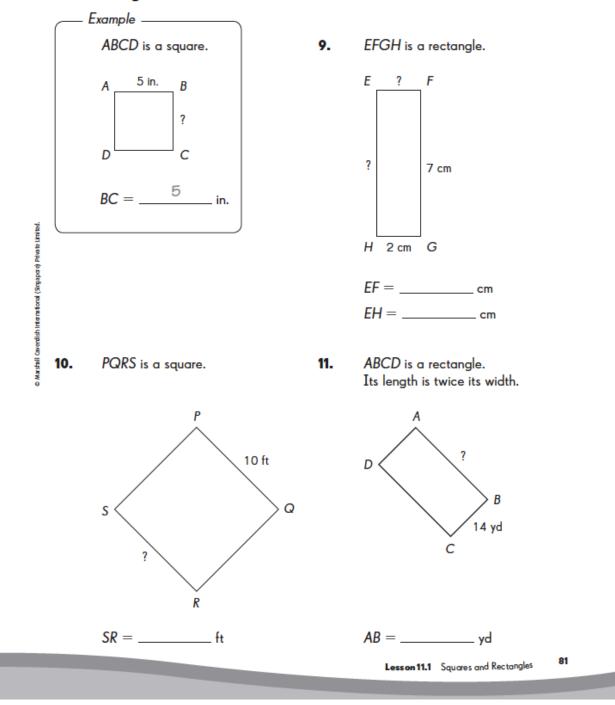


Lesson 11.1 Squares and Rectangles 79

Fill in the blanks.

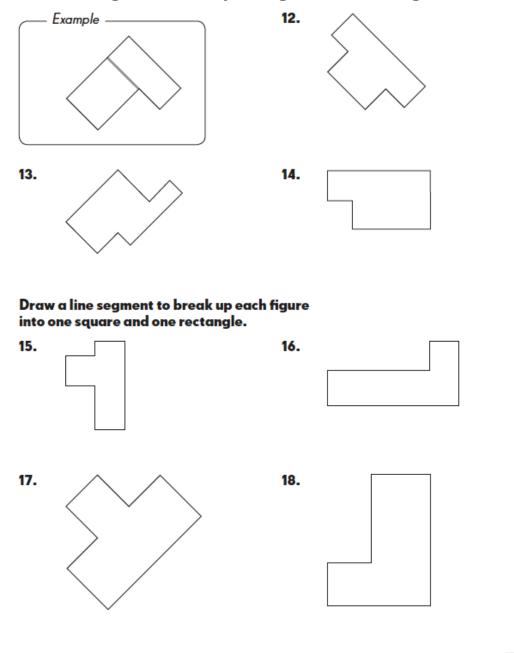


80 Chapter11 Squares and Rectangles



Find the lengths of the unknown sides.

Name:



Draw a line segment to break up each figure into two rectangles.

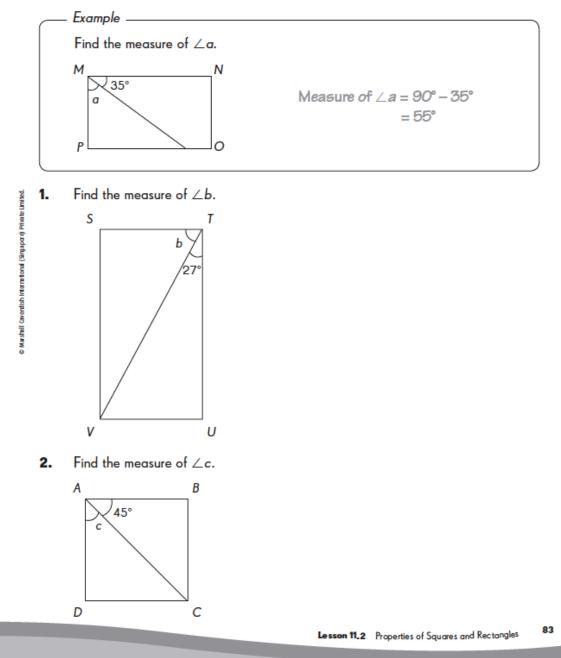
82 Chapter11 Squares and Rectangles

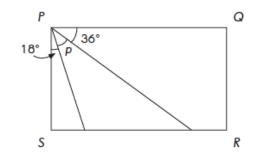
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Practice 2 Properties of Squares and Rectangles

All the figures are rectangles. Find the measures of the unknown angles.

Name:



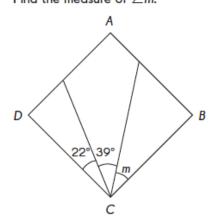


All the figures are rectangles. Find the measures of the unknown angles.

4. Find the measure of $\angle m$.

Find the measure of $\angle p$.

3.

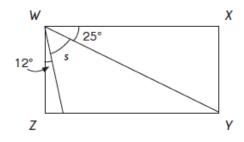


84 Chapter11 Squares and Rectangles

Name:	Date:

The figure is a rectangle. Find the measure of the unknown angle.

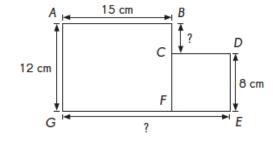
5. Find the measure of $\angle s$.



Find the lengths of the unknown sides.

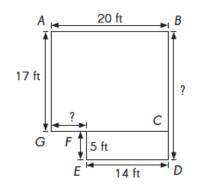


6. The figure is made up of a rectangle and a square. Find BC and GE.

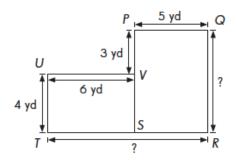


Find the lengths of the unknown sides.

7. The figure is made up of two rectangles. Find BD and FG.



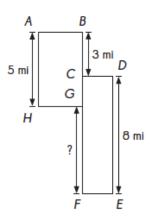
8. The figure is made up of two rectangles. Find QR and RT.



Date:_____

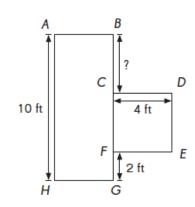
Find the lengths of the unknown sides.

9. The figure is made up of two rectangles. Find FG.

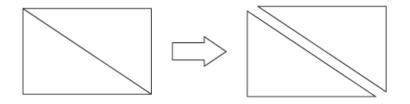


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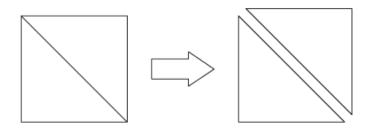
10. The figure is made up of a square and a rectangle. Find BC.



When we divide a rectangle into two, we get two right triangles.

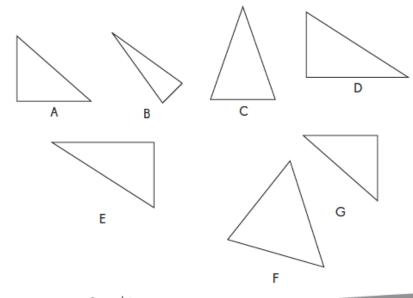


In the same way, we can divide a square into two right triangles.



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11. Which two of these right triangles make a rectangle and which two make a square?



88 Chapter11 Squares and Rectangles

Date:

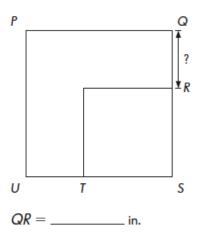


Figure ABCD is a rectangle. Complete each statement. Use the words in the box.

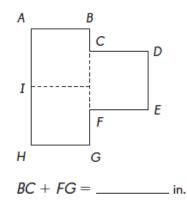
		opposite right	parallel sides	of equal length four	
e Marshill Gverdish intam tonal (Singapara) Private United.			A D C C		
e Marshell Ca	1.	A rectangle has			
	2.	Its	sides ar	re	
	3.	Its	sides a	ire	
	4.	It has	ar	ngles.	



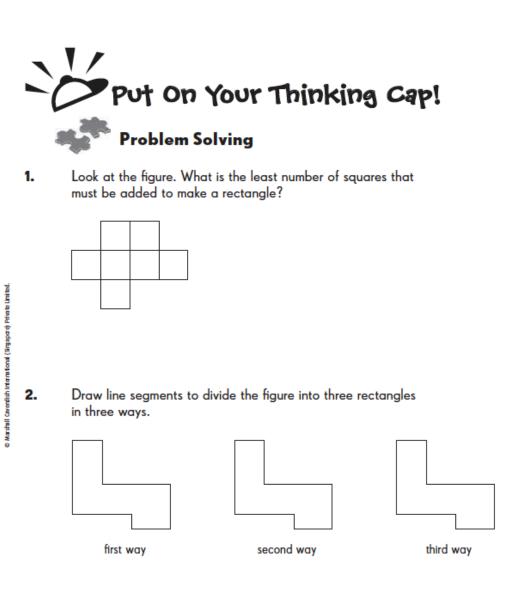
1. The figure is made up of two squares, one with 10-inch sides and the other with 6-inch sides. Find *QR*.



2. The figure is made up of three identical squares with 3-inch sides. Find the total length of \overline{BC} and \overline{FG} .



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Date:



- А C Marshall Carendish International (Singapore) Private Limited. Chapter11 Squares and Rectangles 92
- **3.** Cut out the shaded rectangles and squares. Arrange them to fit inside rectangle A without overlapping. Then attach them with tape.

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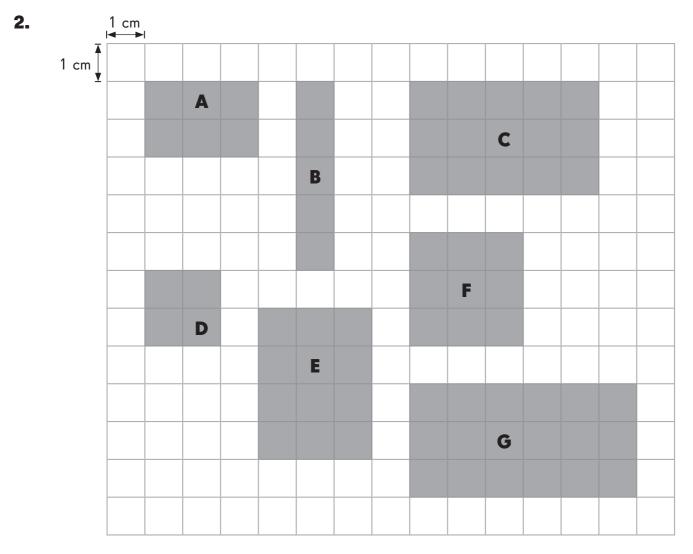


Practice 1 Area of a Rectangle

Find the area of each figure.

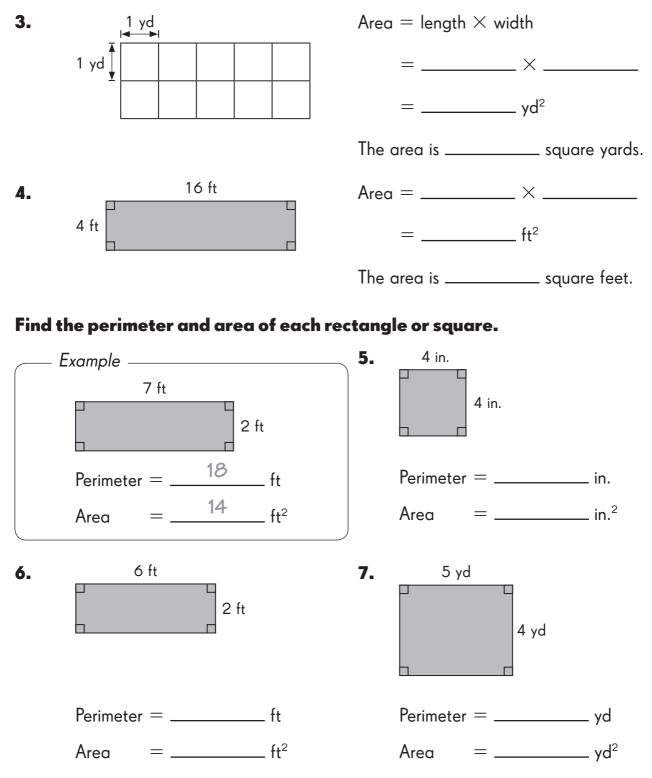
There are <u> </u>	rows of one-inch squares. 1 in.
Each row has	4 one-inch squares. 1 in. ↓
<u> </u>	4 = 12
There are <u>12</u> rectangle A.	one-inch squares covering
•	= <u>12</u> in. ²
1	
1 m I ⊲→ I	There are rows of one-meter squar
	There are rows of one-meter squar
	There are rows of one-meter squares.
	Each row has one-meter squares.
	Each row has one-meter squares.
	Each row has one-meter squares. X = There are one-meter squares

Look at the rectangles in the grid. Write the length, width, and area of each rectangle in the grid. Give your answers in the correct units.

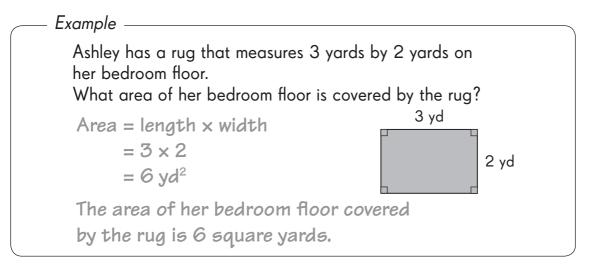


Rectangle	Length	Width	Area = Length imes Width
А	3 cm	2 cm	6 cm ²
В			
С			
D			
Е			
F			
G			

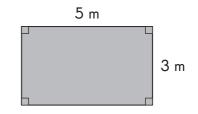
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Complete to find the area of each figure.



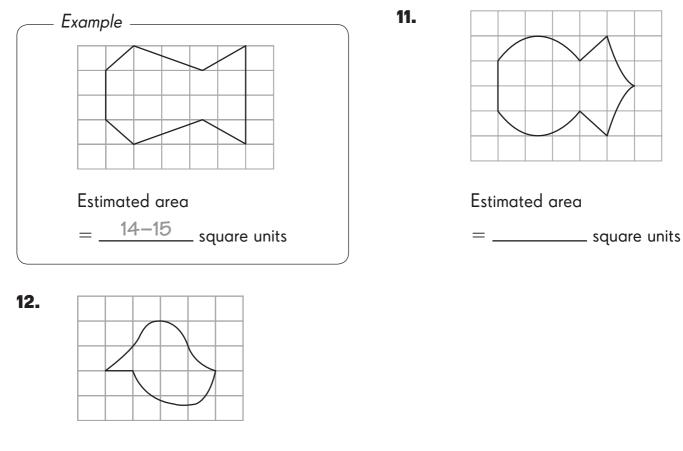
8. Paula wants to paint one of the walls in her room blue. The wall measures 5 meters by 3 meters. What is the area of the wall she has to paint?



9. The area of a nature reserve is 100 square miles.
 Oak trees were planted on a square plot of land in the nature reserve with sides that measure 8 miles each.
 What area of the nature reserve is not covered by oak trees?

Yolanda has a piece of rectangular fabric measuring 30 centimeters by 9 centimeters. She uses half of the material to make a puppet. What is the area of the leftover fabric?

Estimate the area of each figure in square units.



Estimated area = ______ square units



Look at John's answers for the area and perimeter of the figures.

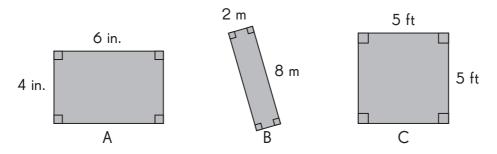


Figure	Length	Width	Area	Perimeter
A	6 in.	4 in.	24 in.	10 in.
В	8 m	2 m	16 m ²	20 cm
С	5 ft	5 ft	10 ft ²	20 ft

John's mistakes are circled.

Explain why these answers are wrong. Write the correct answers.

— Example ——

Area of figure A:

The unit for the area of figure A should be 'in.'.

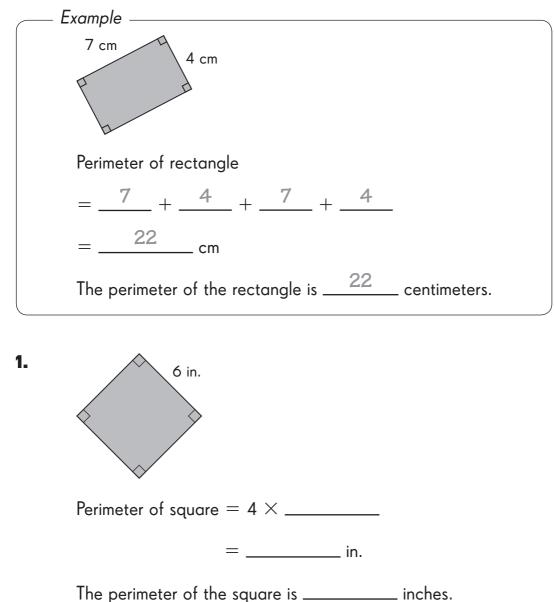
1. Perimeter of figure A: _____

2. Perimeter of figure B: _____

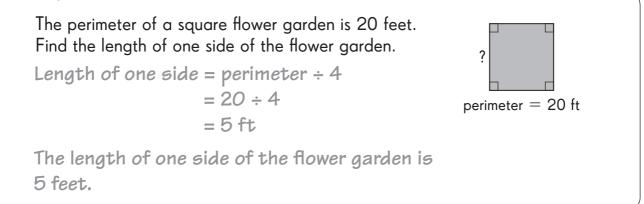
3. Area of figure C: _____

Practice 2 Rectangles and Squares

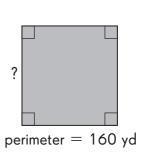
Find the perimeter of each figure.



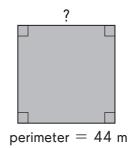
Example -



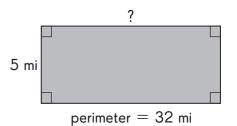
2. The perimeter of a square building is 160 yards. Find the length of one side of the building.



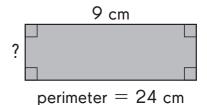
3. A square field has a perimeter of 44 meters. Find the length of one side of the field.



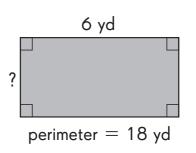
4. The perimeter of a rectangular town is 32 miles. Its width is 5 miles. Find the length.



5. The perimeter of a rectangle is 24 centimeters. Its length is 9 centimeters. Find the width.

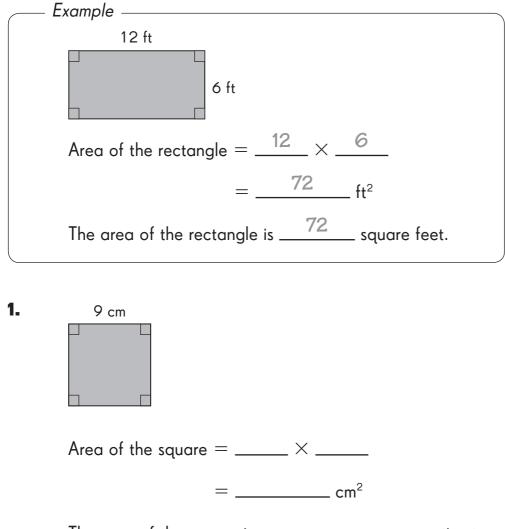


6. The perimeter of a rectangular garden is 18 yards. Its length is 6 yards. Find its width.

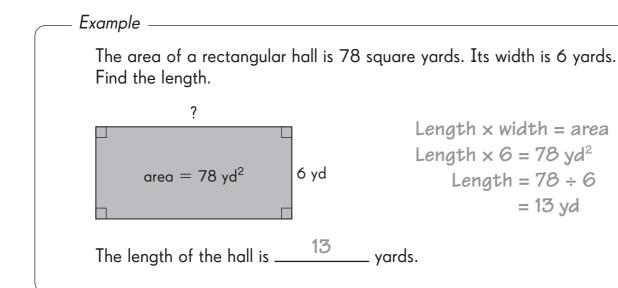


Practice 3 Rectangles and Squares

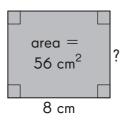
Find the area of each figure.



The area of the square is ______ square centimeters.



2. A rectangle has an area of 56 square centimeters. Its length is 8 centimeters. Find the width.



The width of the rectangle is _____ centimeters.

Date:

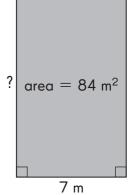
Solve. Show your work.

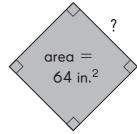
- **3.** The area of a rectangular carpet is 84 square meters. Its width is 7 meters.
 - **a.** Find the length.

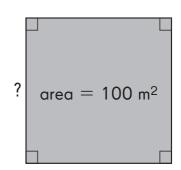
b. Find the perimeter of the carpet.

The area of a square is 64 square inches. Find the length of one side of the square. (Hint: What number multiplied by itself is equal to 64?)

Find the length of each side of the garden.







b. Find the perimeter of the garden.

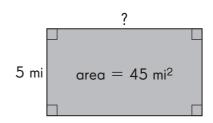
4.

5.

a.

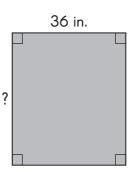
The area of a square garden is 100 square meters.

- **6.** The area of a rectangular recreation area is 45 square miles. Its width is 5 miles.
 - **a.** Find the length.



b. Find the perimeter.

- **7.** The perimeter of a rectangular poster is 156 inches. Its width is 36 inches.
 - **a.** Find the length.

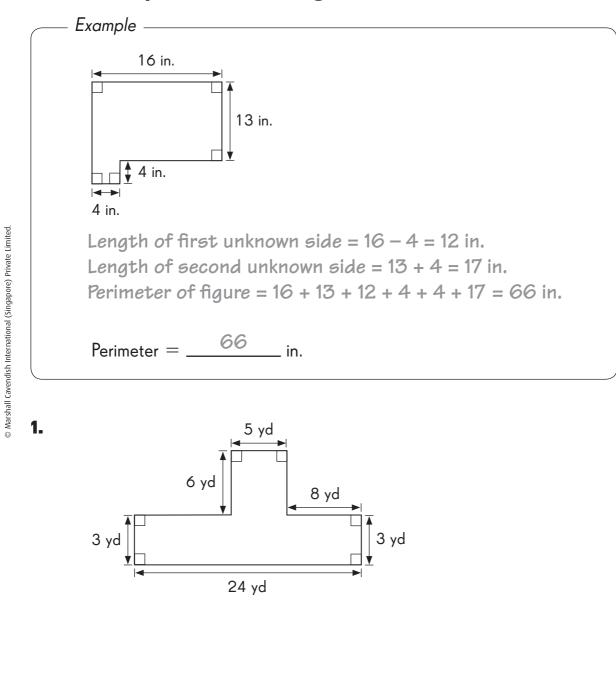


b. Find the area.

perimeter = 156 in.

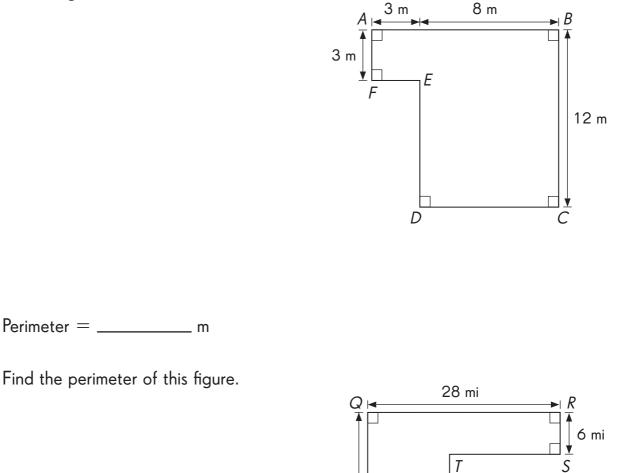
Practice 4 Composite Figures

Find the lengths of the unknown sides of each figure. Then find the perimeter of each figure.



Perimeter = _____ yd

2. Tom wants to fence in the piece of land shown in the diagram. Find the perimeter of the piece of land to find the length of fencing material he needs.



24 mi

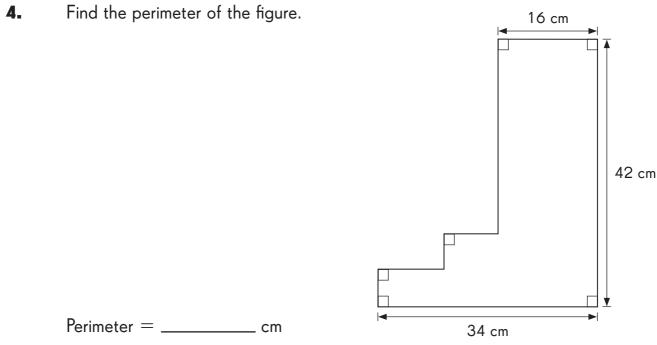
V

►U

12 mi

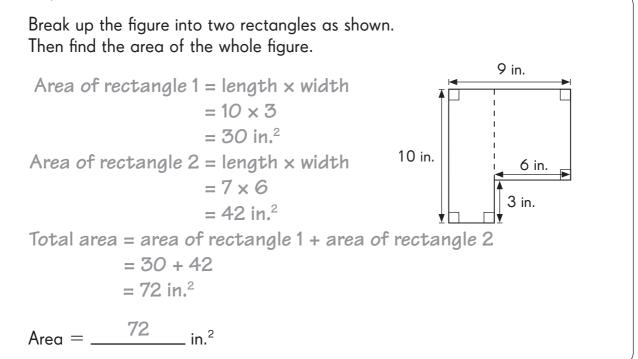
3.

Perimeter = _____ mi

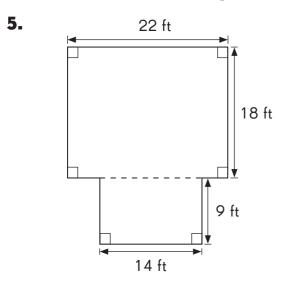


Find the area of each composite figure. Show your work.

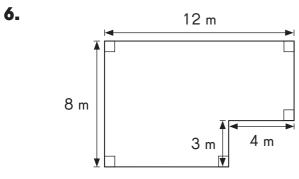
– Example -



Find the area of each composite figure. Show your work.



$$Area =$$
_____ft²

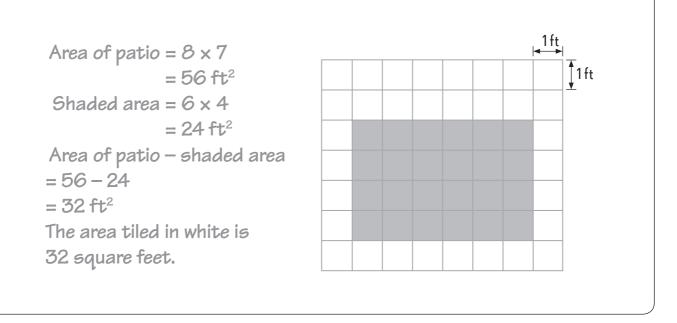


Practice 5 Using Formulas for Area and Perimeter

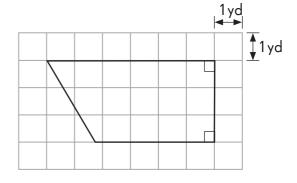
Solve. Show your work.

– Example -

The floor of a patio measuring 8 feet by 7 feet is tiled with 1-foot square tiles. The shaded area in the figure is tiled in black, and the unshaded area is tiled in white. What is the area tiled in white?

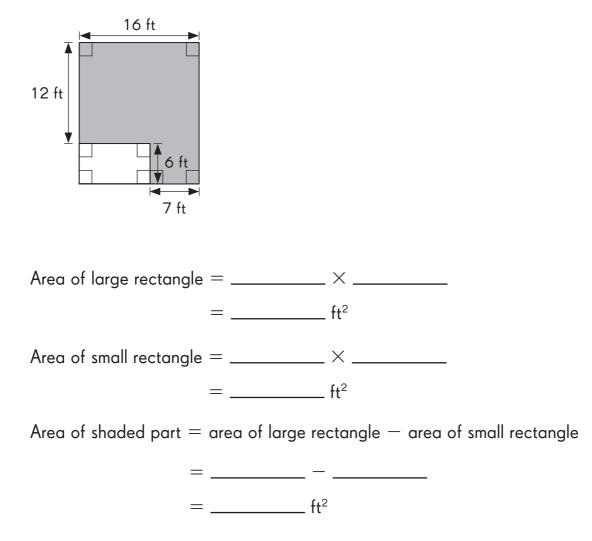


- **1.** The floor of Mr. Jones' living room is in the shape shown below.
 - **a.** Estimate, in square yards, the area of his living room.



b. Mr. Jones wants to carpet his living room. If a roll of carpet is 3 yards wide, what is the smallest length of carpet Mr. Jones should buy?

2. The figure shows a small rectangle and a large rectangle. Find the area of the shaded part of the figure.

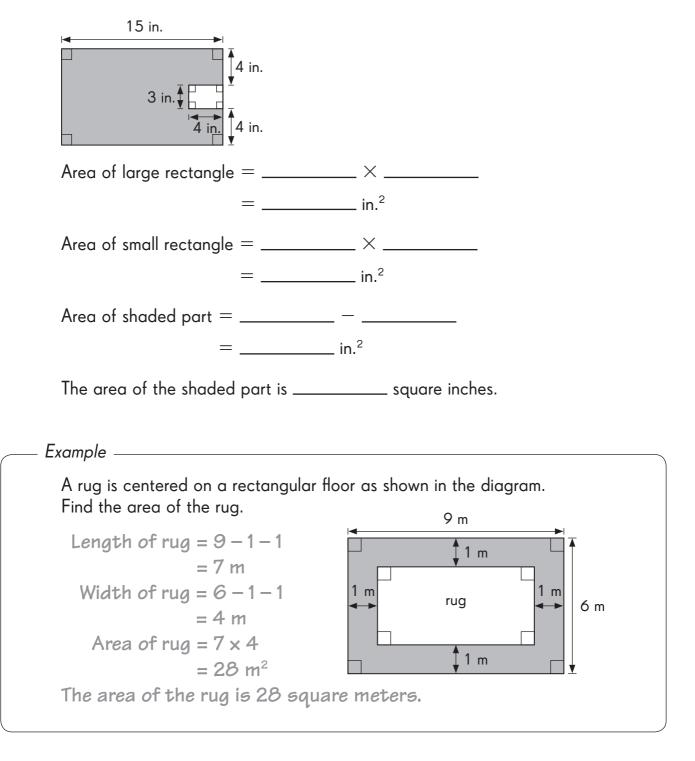


The area of the shaded part is ______ square feet.

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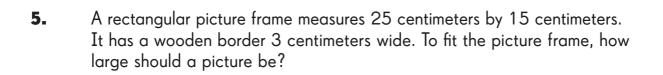
Solve. Show your work.

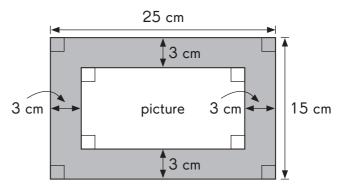
3. The figure shows a small rectangle and a large rectangle. Find the area of the shaded part of the figure.

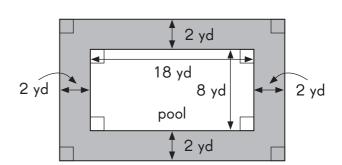


153

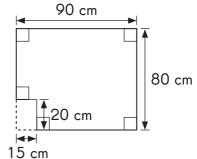
4. A rectangular pool is surrounded by a 2-yard-wide deck as shown in the diagram. Find the area of the deck.







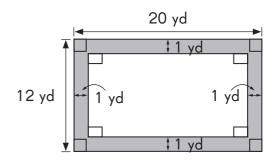
- **6.** Renee has a piece of rectangular cardboard measuring 90 centimeters by 80 centimeters. She cuts out a small rectangular piece measuring 15 centimeters by 20 centimeters.
 - **a.** Find the area of the remaining piece of cardboard.



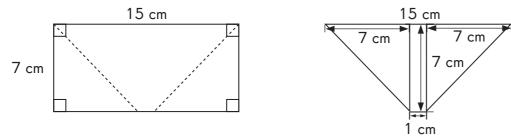
b. Find the perimeter of the remaining piece of cardboard.

c. Compare the perimeter of the remaining piece of cardboard with that of the original piece of cardboard. Which one is greater?

7. Melanie makes a path 1 yard wide around her rectangular patch of land as shown in the diagram. Find the perimeter and area of the patch of land.



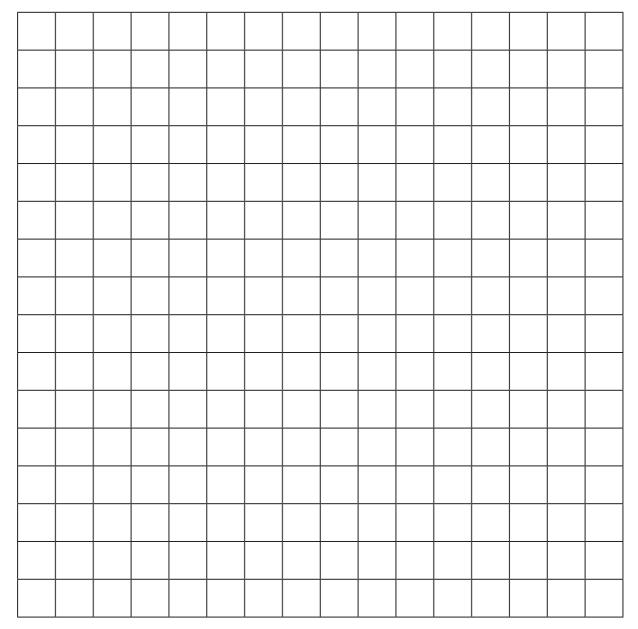
8. A rectangular piece of paper measuring 15 centimeters by 7 centimeters is folded along the dotted lines to form the figure shown.



Find the area of the figure formed.

Put On Your Thinking Cap!

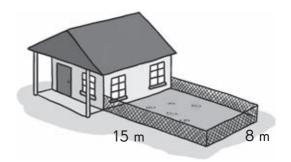
1. Using the gridlines, draw as many different rectangles as you can that have an area of 12 square centimeters. Do the same for rectangles with an area of 9 square centimeters. How many rectangles can you draw for each area?



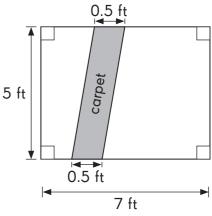
2. The length of a painting is 3 times its width. Its perimeter is 64 inches. Find the length.

3. The length of a dog run is twice its width. Its area is 50 square yards. Find the length and width of the dog run.

4. A rectangular garden measuring 15 meters by 8 meters is bordered by a house on one side as shown. How much fencing material is needed for the garden?

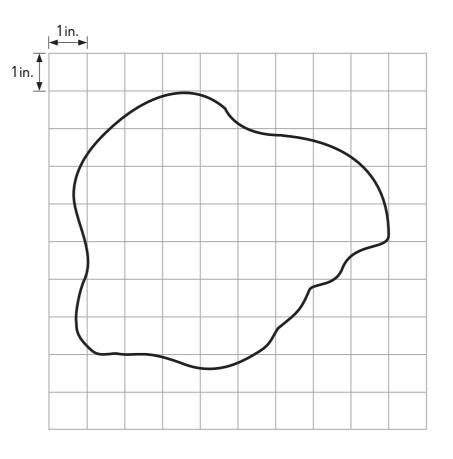


5. Mrs. Evan covered the rectangular floor of her living room with a parallelogramshaped carpet as shown. The floor measures 5 feet by 7 feet. How much of the floor is covered with carpet?



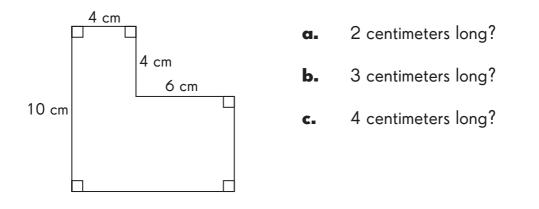
Estimate the area.

6. Peter wanted to make a collage of a park. How much paper would he need to make this pond?

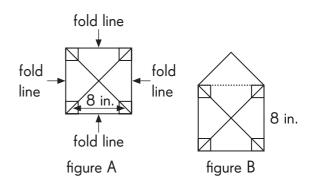




 Shawn has a piece of cardboard as shown in the diagram. He wants to cut out as many squares as possible from the cardboard. How many squares can he cut if each side of a square is

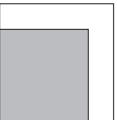


2. Figure A shows a piece of paper folded to form a square with 8-inch sides as shown in the diagram. Figure B shows one of the flaps opened. Find the area of figure B.



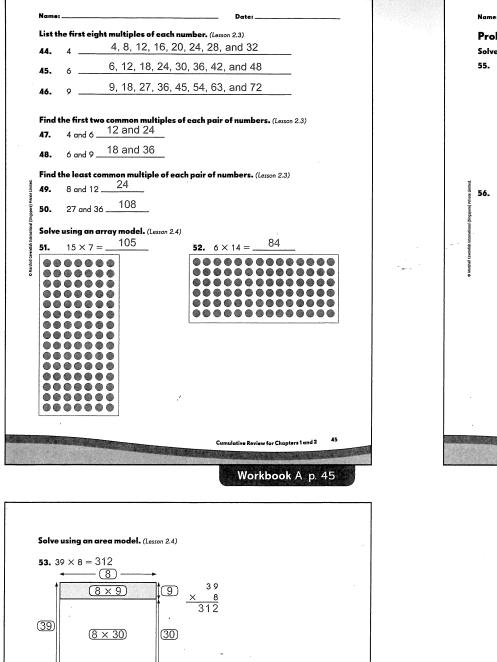
Solve. Show your work.

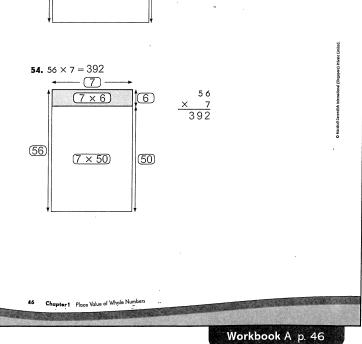
3. The figure shows two squares. The area of the unshaded part of the figure is 9 square feet. If the sides of both the squares are whole numbers, find the perimeter of the unshaded part.

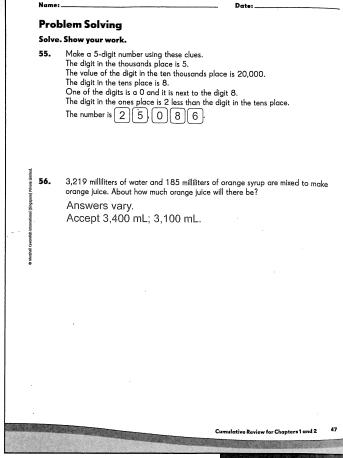


ame: Date:		Name:		-	6		
		Find ea that yo	ch sum or differenc ur answers are reas	sonable. (Le	esson 1.3 and 2.1)	ition to check	
Cumulative Review		25.	1,376	26.	7,496	27.	43
for Chapters 1 and 2		23.	+ 3,428		- 829	+	
			4,804		6,667		19
Concepts and Skills			Estimated sum: 4,000		Estimated difference: 6,2	Estimat 00 sum: 1,	
Write each number in standard form. (Lesson 1.1)							, 10
I. forty-eight thousand, six			ach product. Then u able. (Lesson 2.1 and 2		g to cneck that you	Ir answers are	
2. one hundred thousand <u>100,000</u>				~~	0.4.4		
69 211		28.	383 × 2	29.	241 × 4	30. ×	75
3. sixty-nine thousand, two hundred eleven		ate Umite	766		964		76
Write each number in word form. (Lesson 1.1)		Stpore) Pt	Estimated		Estimated	Estimated	
fifty-three thousand, nine hundred		kional (Sin	product: 800		product: 800	product: 3	i,5U
sixteen thousand six hundred fifty-eight			ach product. Then u nswers are reasond			heck that	
5. 16,658 twenty thousand, three hundred six	-	yourc				,	
6. 20,306 twenty thousand, the number six	-	31.	308	32.	126 × 5	33.	41
			<u>× 3</u> 924	÷.,	630	<u>^</u> 1,	66
Fill in the blank to write the number in expanded form. (Lesson 1.1)			Estimated		Estimated	Estimated	ł
7. $13,901 = 10,000 + \frac{3,000}{900} + 900 + 1$			product: 900		product: 500	product: 1	1,60
		Find e	ach quotient. Then	use relate	d multiplication fa	icts to check	
Fill in the blanks. (Lesson 1.2)		that y	our answers are real 2 3	asonable. ((Lesson 2.1) 29		1
8. 100 more than 26,542 is <u>26,642</u> .		34.	4)92	35.	3)78	36. 4))6
9 is 100 less than 79,023.			Estimated		Estimated	Estimate	
·			quotient: 20		quotient: 30	quotient	: 2
Workbook A p. 41						Workbook /	A 1
Workbook A p. 41						Workbook /	A p
		Find	the factors of each		esson 2.2)		A p
Circle the number that is greater. (Lesson 1.2)		Find 35.	the factors of each				^
Circle the number that is greater. (Lesson 1.2) 10. (12,630) or 6,238 11. 45,200 or (45,496)		35.	36	1, 2, 3,	esson 2.2) 4, 6, 9, 12, 18,	, and 36	∧ β
Circle the number that is greater. (Lesson 1.2)			36	1, 2, 3, 1, 2, 4	ssson 2.2) 4, 6, 9, 12, 18, -, 5, 8, 10, 20, ;	, and 36 and 40	
Circle the number that is greater. (Lesson 1.2) 10. (12,630) or 6,238 11. 45,200 or (45,496) 12. 62,529 or (69,522) 13. (90,236) or 87,415 Circle the number that is less. (Lesson 1.2)		35.	36	1, 2, 3, 1, 2, 4	esson 2.2) 4, 6, 9, 12, 18,	, and 36 and 40	
Circle the number that is greater. (Lesson 1.2) 10. $(12,630)$ or $6,238$ 11. $45,200$ or $(45,496)$ 12. $62,529$ or $(69,522)$ 13. $(90,236)$ or $87,415$ Circle the number that is less. (Lesson 1.2) 14. $(6,563)$ or $48,200$ 15. $(67,186)$ or $67,254$		35. 36. 37.	36 40 961, 2,	1, 2, 3, 1, 2, 4 3, 4, 6, 8	esson 2.2) 4, 6, 9, 12, 18, 5, 8, 10, 20, 5 3, 12, 16, 24, 3	, and 36 and 40 32, 48, and 90	
Circle the number that is greater. (Lesson 1.2) 10. $(2,630)$ or $6,238$ 11. $45,200$ or $(45,496)$ 12. $62,529$ or $(9,522)$ 13. $(90,236)$ or $87,415$ Circle the number that is less. (Lesson 1.2) The colspan="2">The colspan="2">The colspan="2">Circle the number that is less. (Lesson 1.2)		35. 36. 37.	36 40 1 2	1, 2, 3, 1, 2, 4 3, 4, 6, 8	esson 2.2) 4, 6, 9, 12, 18, 5, 8, 10, 20, 5 3, 12, 16, 24, 3	, and 36 and 40 32, 48, and 90	
Circle the number that is greater. (Lesson 1.2) 10. $(12,630)$ or $6,238$ 11. $45,200$ or $(45,496)$ 12. $62,529$ or $(69,522)$ 13. $(90,236)$ or $87,415$ Circle the number that is less. (Lesson 1.2) 14. $(6,563)$ or $48,200$ 15. $(67,186)$ or $67,254$ 16. $74,258$ or $(71,852)$ 17. $96,125$ or $(69,521)$		35. 36. 37. Find	36 40 961, 2, the common factor	1, 2, 3, 1, 2, 4 3, 4, 6, 8	esson 2.2) 4, 6, 9, 12, 18, 5, 8, 10, 20, 5 3, 12, 16, 24, 3	, and 36 and 40 32, 48, and 90	
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CHAPTERS 1 AND 2: CUMULATIVE RE





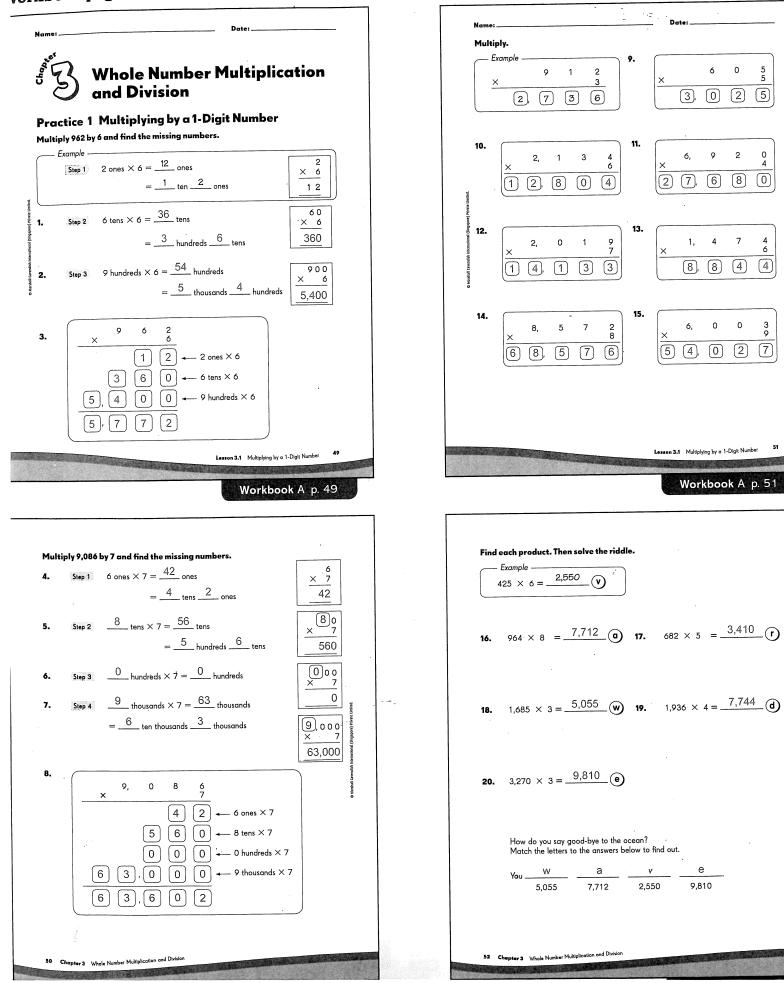


Workbook A p. 47



Practice and Apply

Vorkbook pages for Chapter 3, Lesson 3.1



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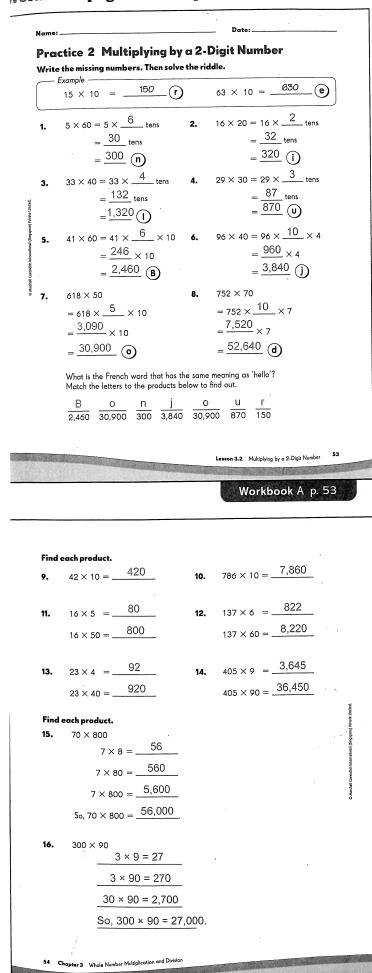
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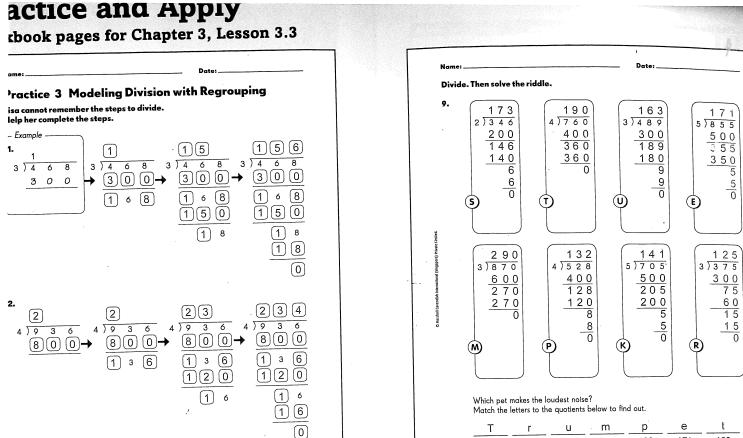
Practice and Apply

Norkbook pages for Chapter 3, Lesson 3.2

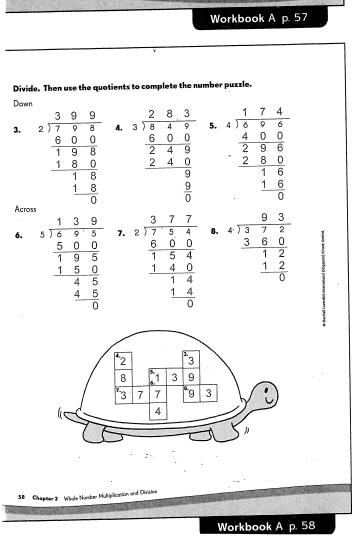


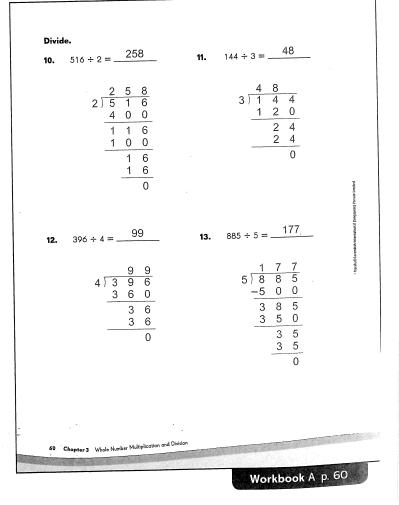
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56 Chapter 3 Whole Number Multiplication and Division



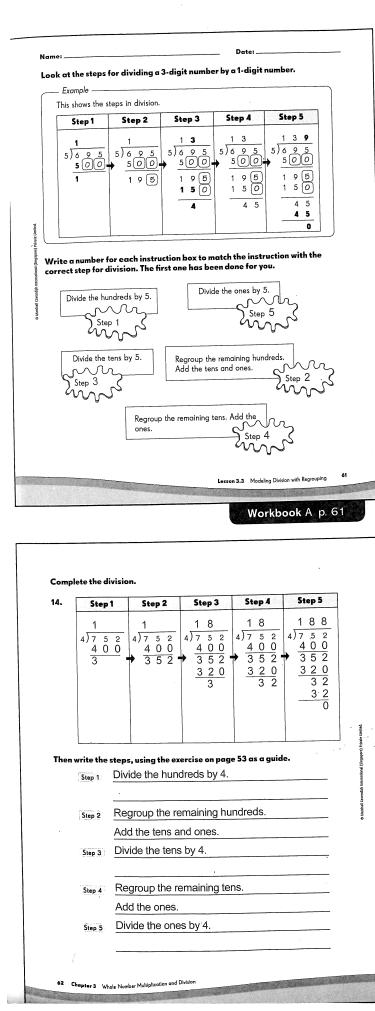
Lesson 3.3 Modeling Division with Regrouping





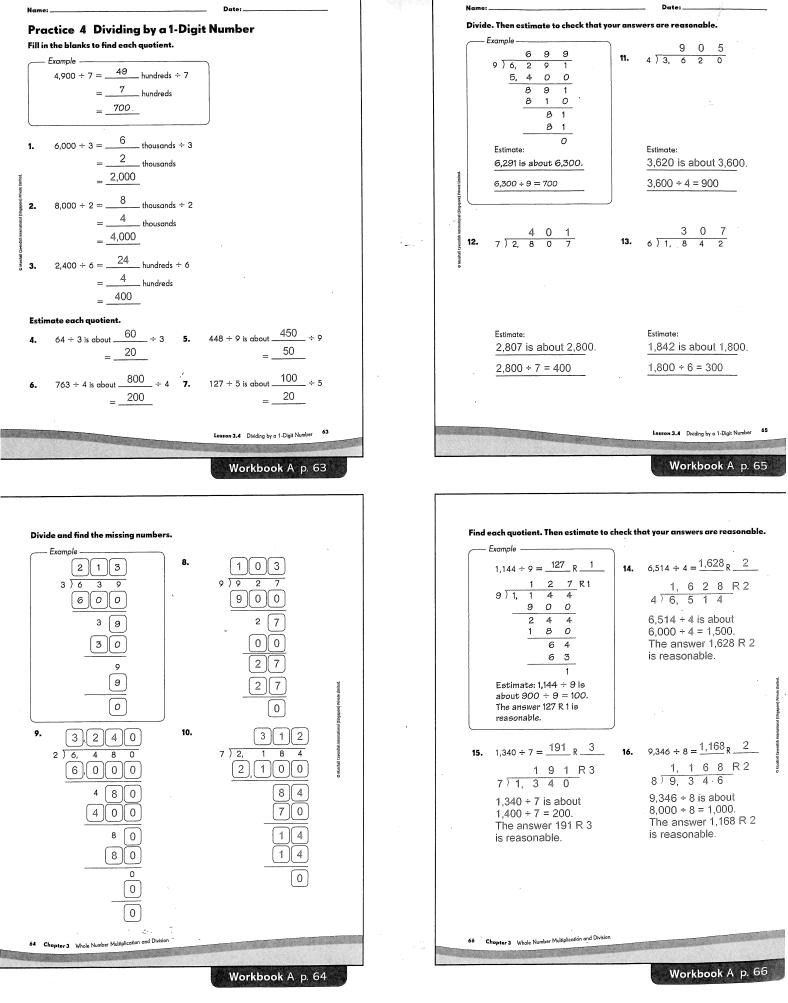
Workbook A p. 59

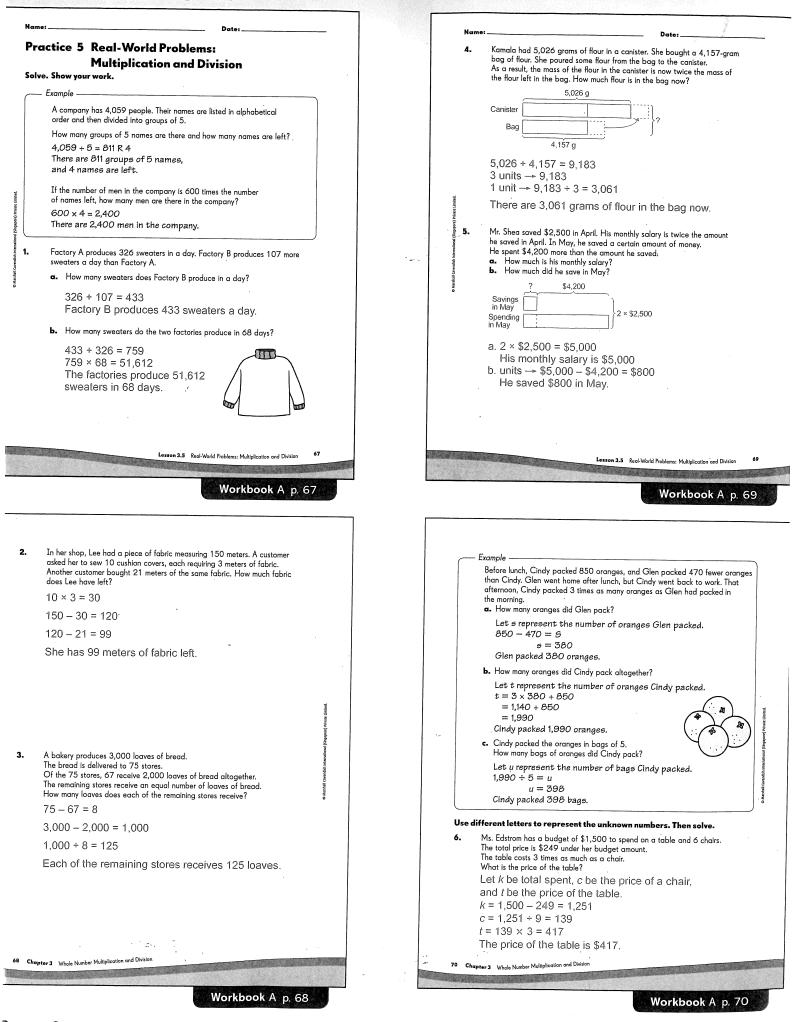
Lesson 3.3 Modeling Division with Regrouping

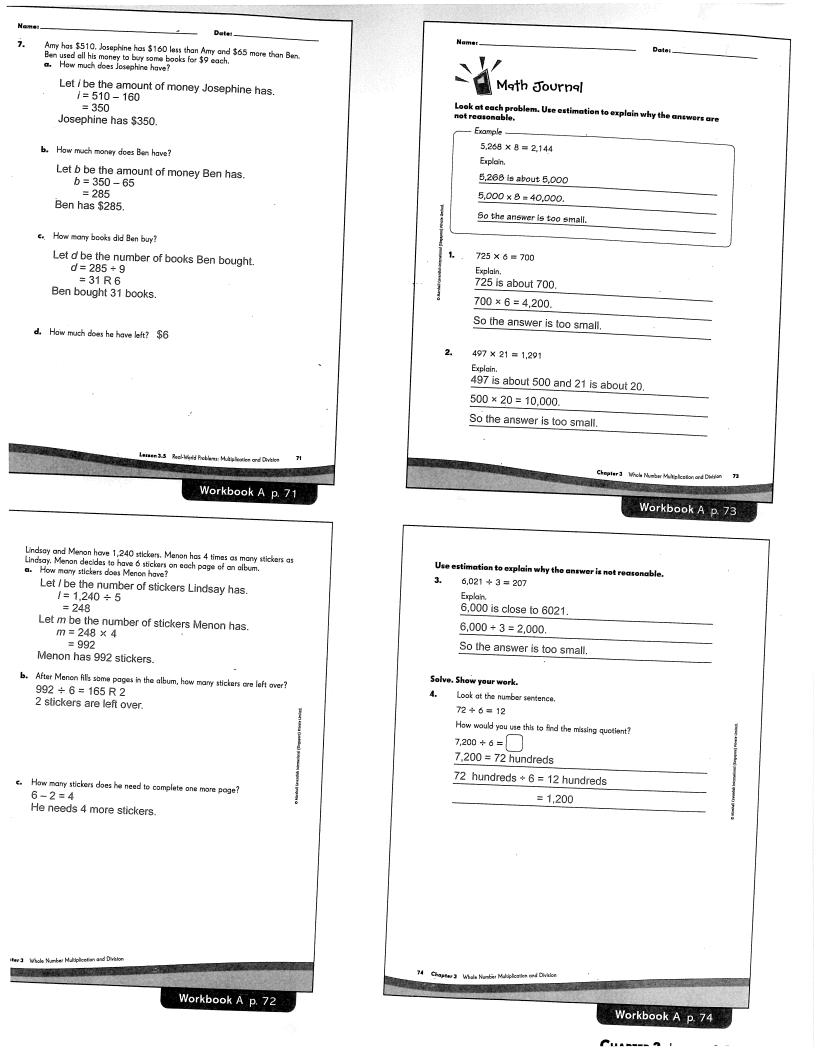


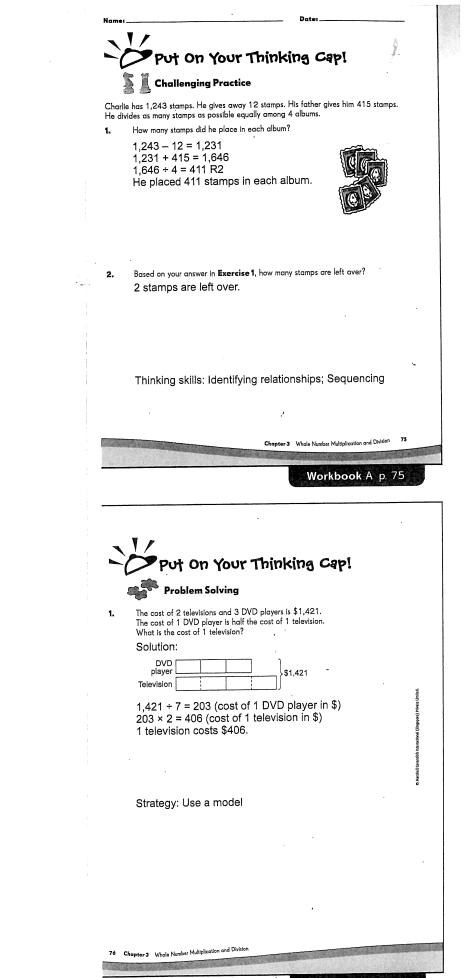
Notes

Workbook pages for Chapter 3, Lesson 3.4

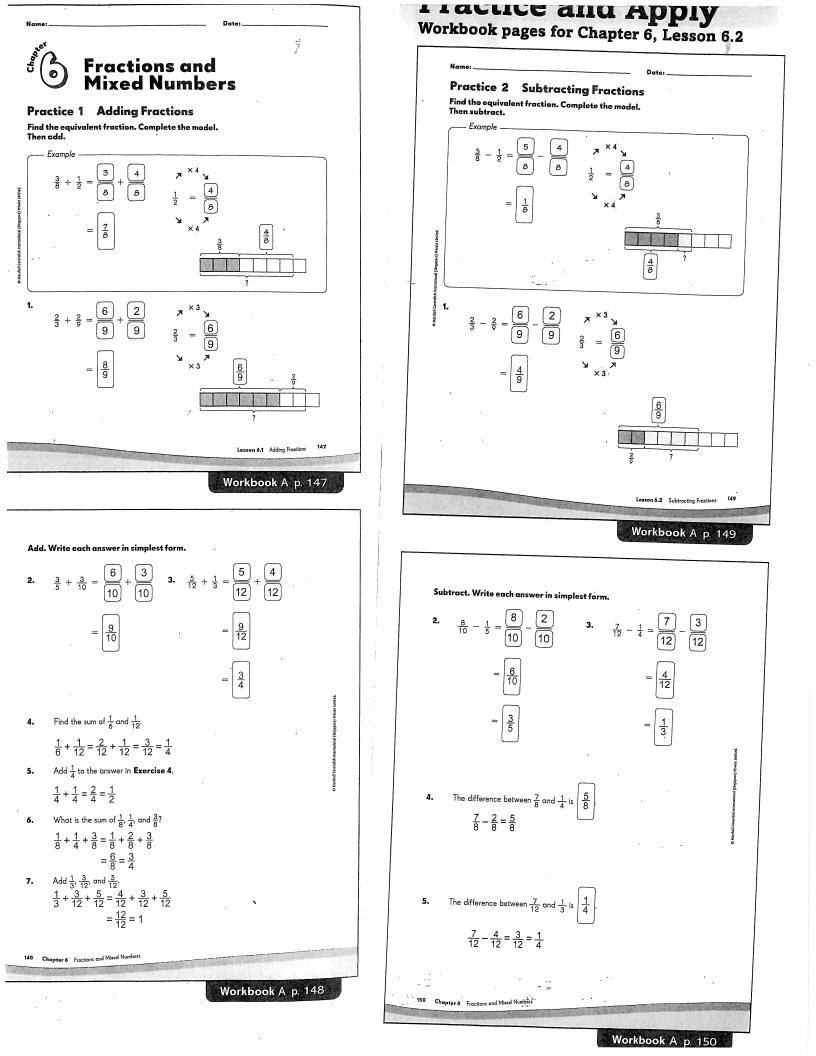




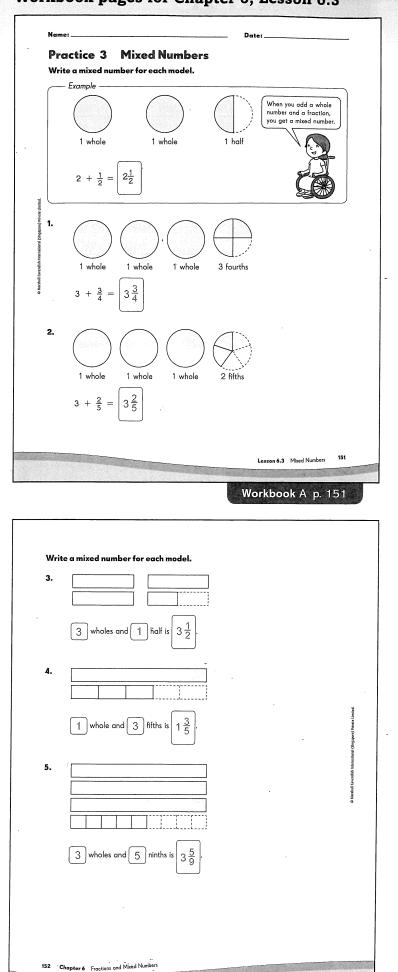




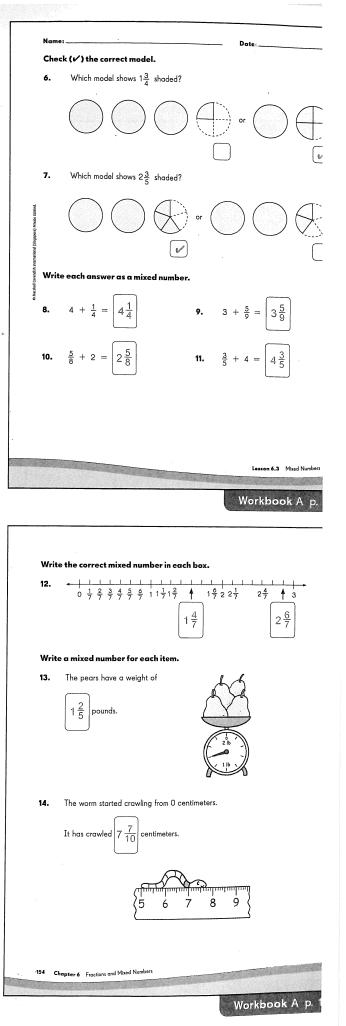
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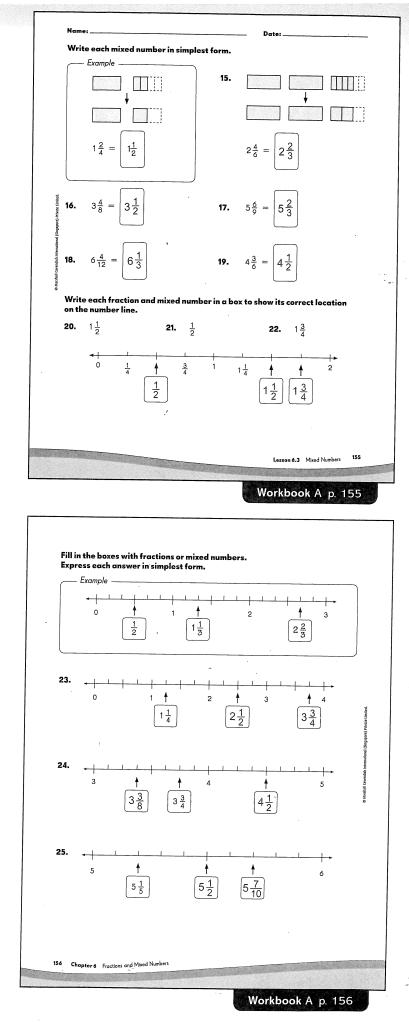


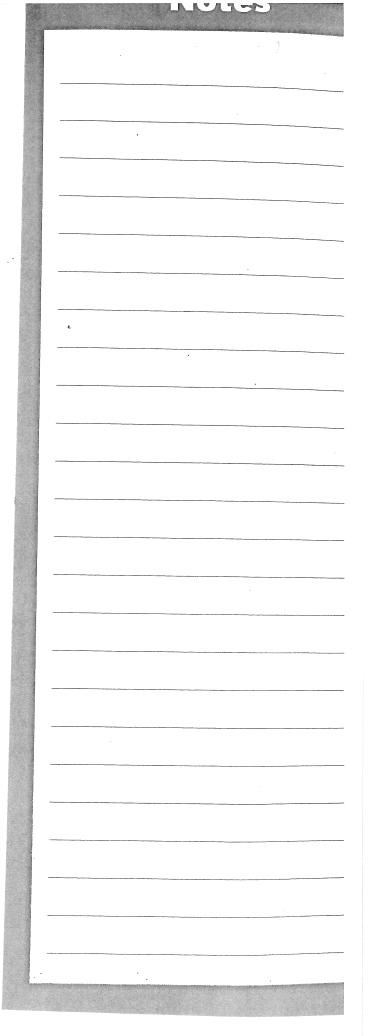


Workbook A p. 152



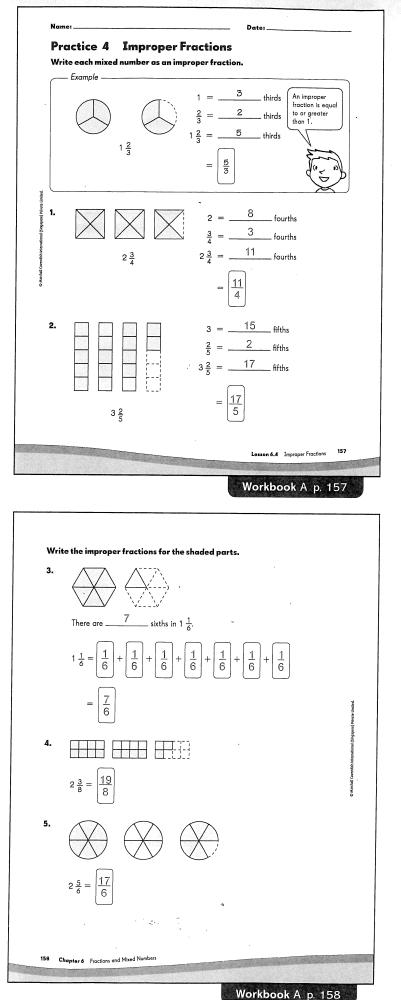
CHAPTER 6: LESSON

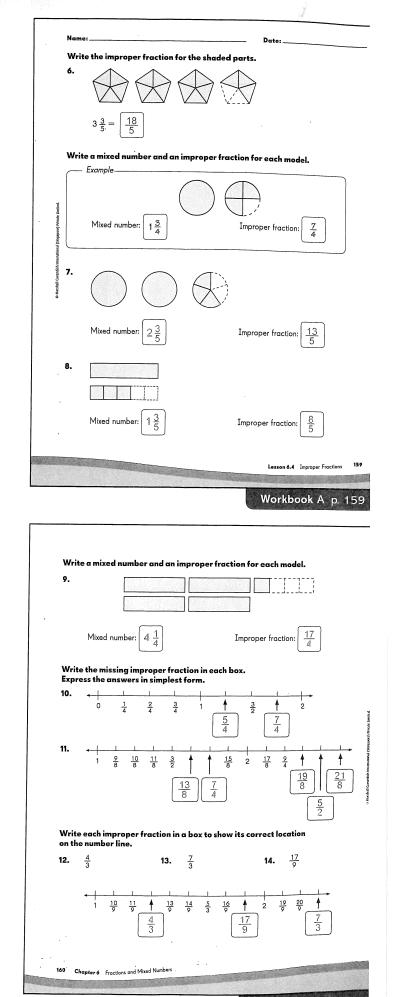


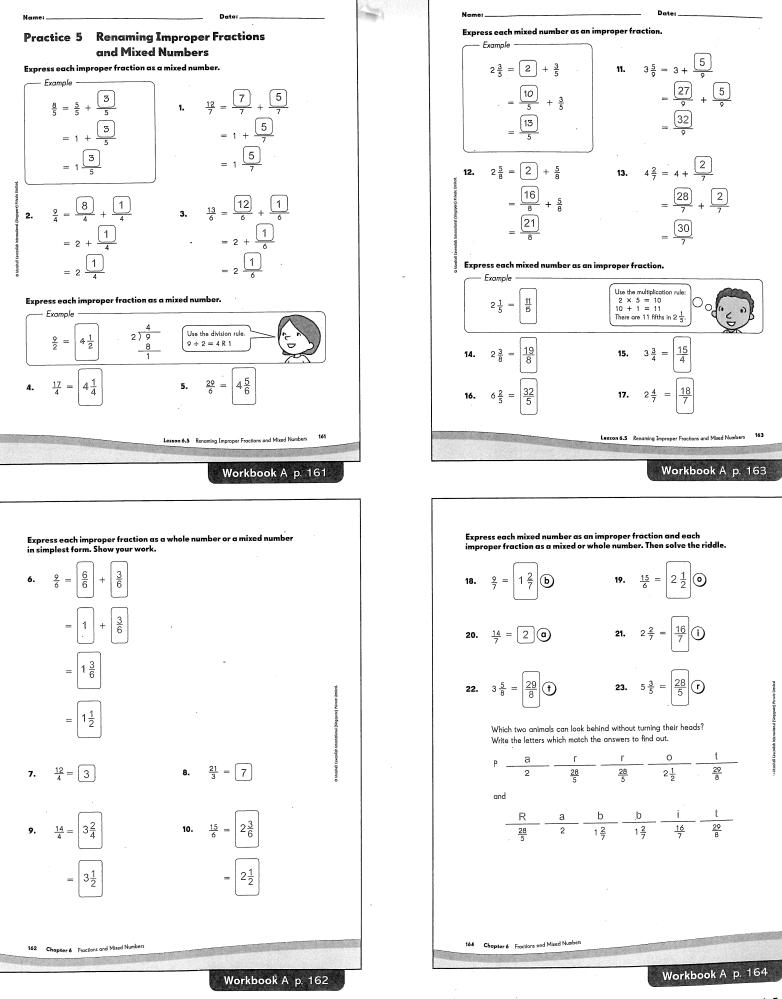


rractice and Apply

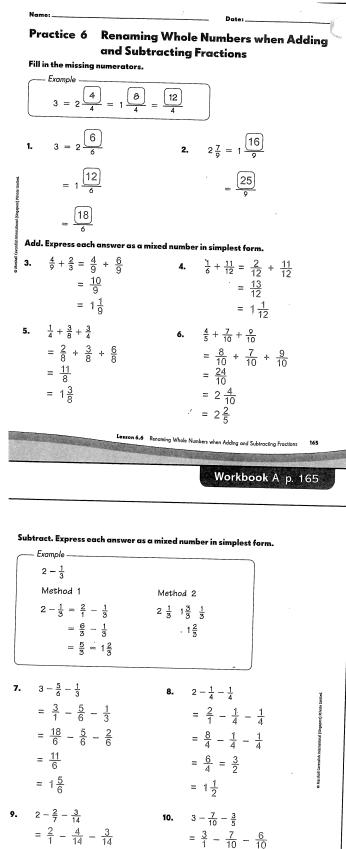
Workbook pages for Chapter 6, Lesson 6.4







CHAPTER 6: LESSON 6.5



 $=\frac{30}{10}-\frac{7}{10}-\frac{6}{10}$

Workbook A p. 166

 $= \frac{17}{10}$ $= 1\frac{7}{10}$

HAPTER 6: LESSON 6.6

 $=\frac{28}{14}-\frac{4}{14}-\frac{3}{14}$

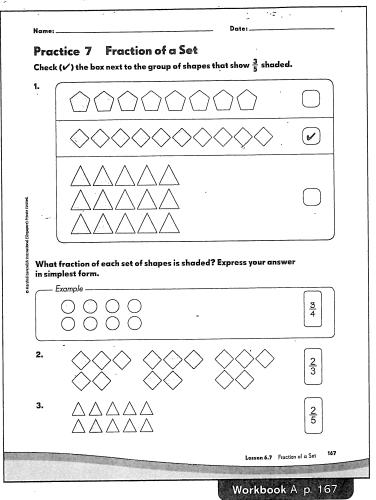
Chapter 6 Fractions and Mixed Numbers

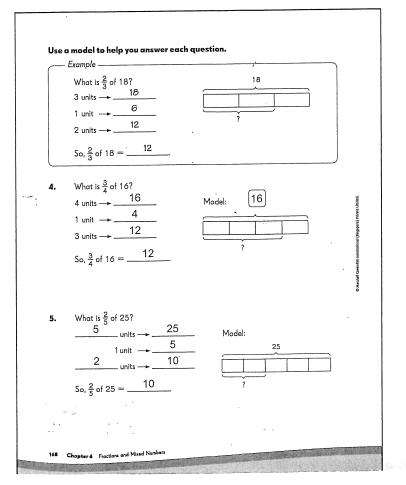
 $=\frac{21}{14}$

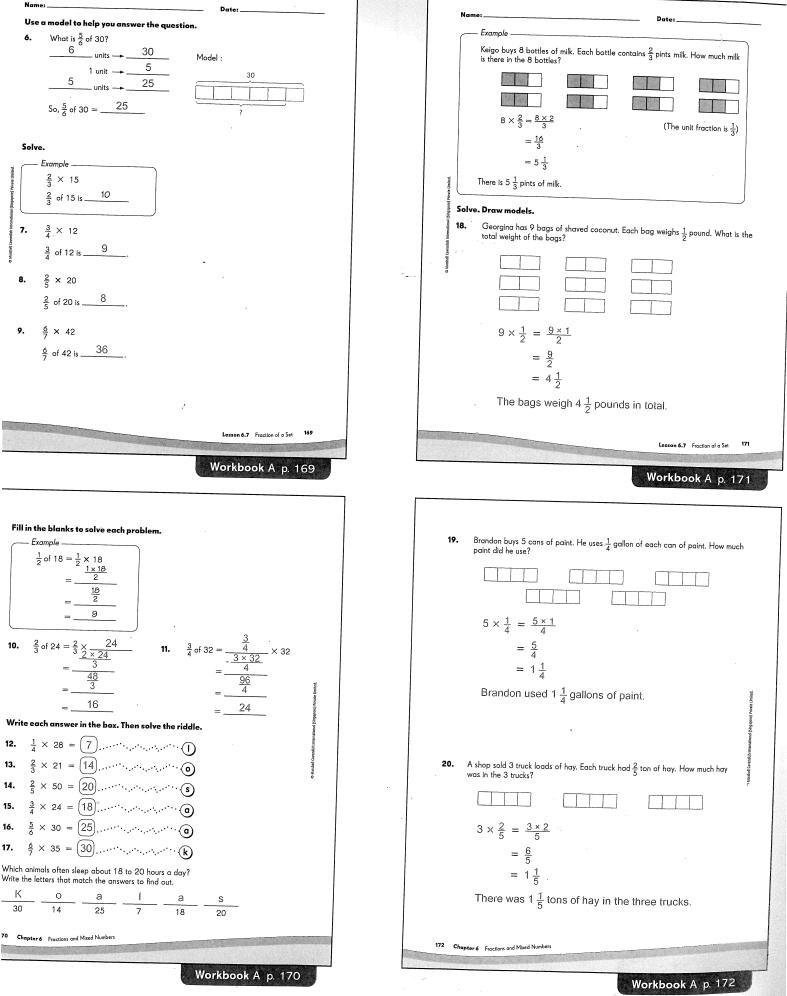
 $=1\frac{1}{2}$

Practice and Apply

Workbook pages for Chapter 6, Lesson 6.7







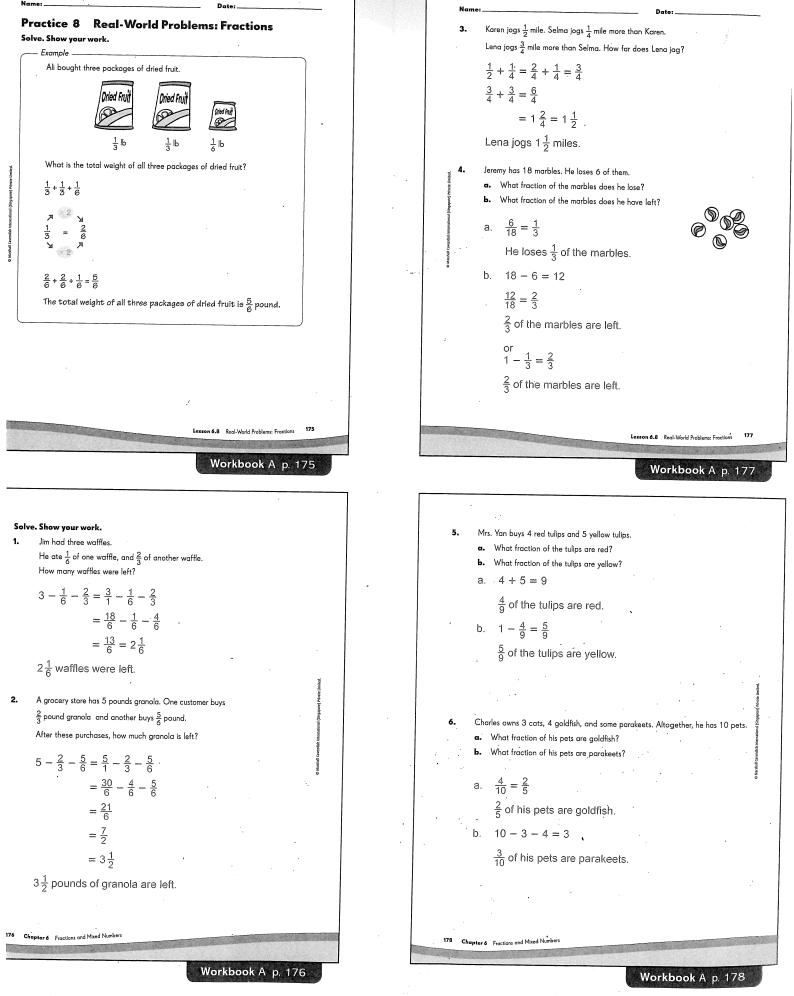
APTER 6: LESSON 6.7

21. A loaf of bread was cut into 10 slices, Jordon, Mandy, Alex, Alving, and Kris ate
They ate $\frac{1}{2}$ of the loaf of bread.
Lesson 6.7 Fraction of a Set 173
Workbook A p. 173
22. A strip of paper was cut into 8 pieces. Some of the pieces were painted. Two of the pieces were painted red and 3 of the pieces were painted green. What fraction of the paper was painted? $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$ $\frac{5}{8}$ of the paper was painted.
of the pieces were painted red and 3 of the pieces were painted green. What fraction of the paper was painted? $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$
of the pieces were pointed red and 3 of the pieces were pointed green. What fraction of the paper was pointed? $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$ $\frac{5}{8}$ of the paper was painted. Write an addition word problem for the model below. Solve. 23. 23. 21. 23. 23. 23. 23. 23. 23. 23. 23

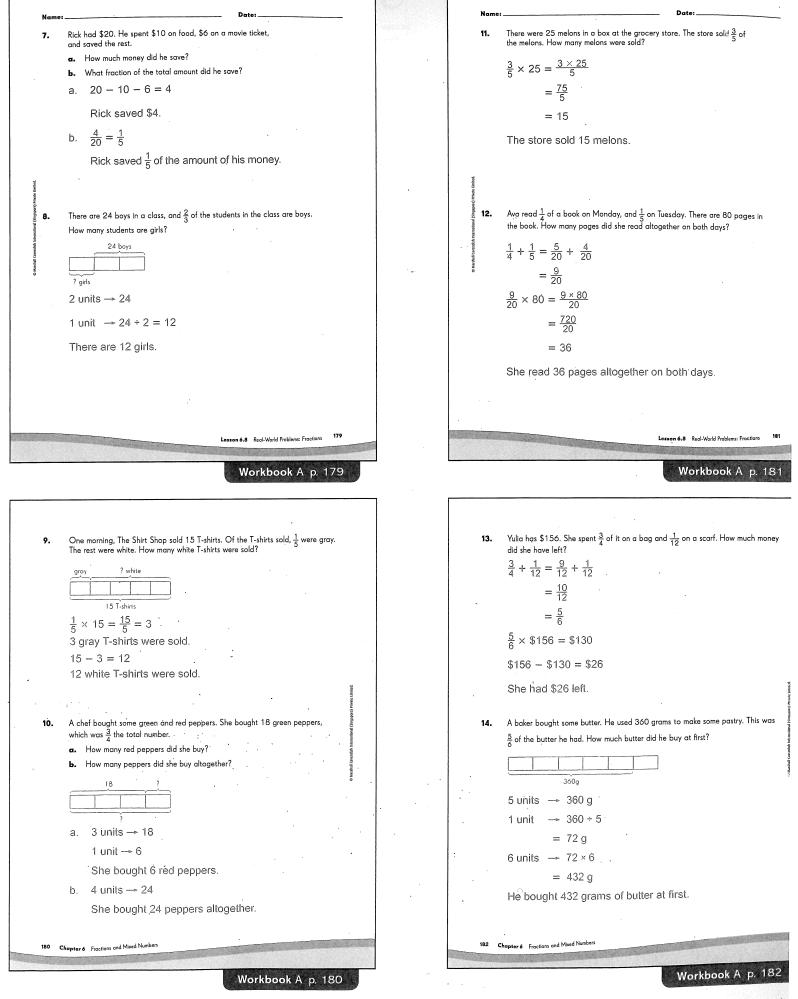
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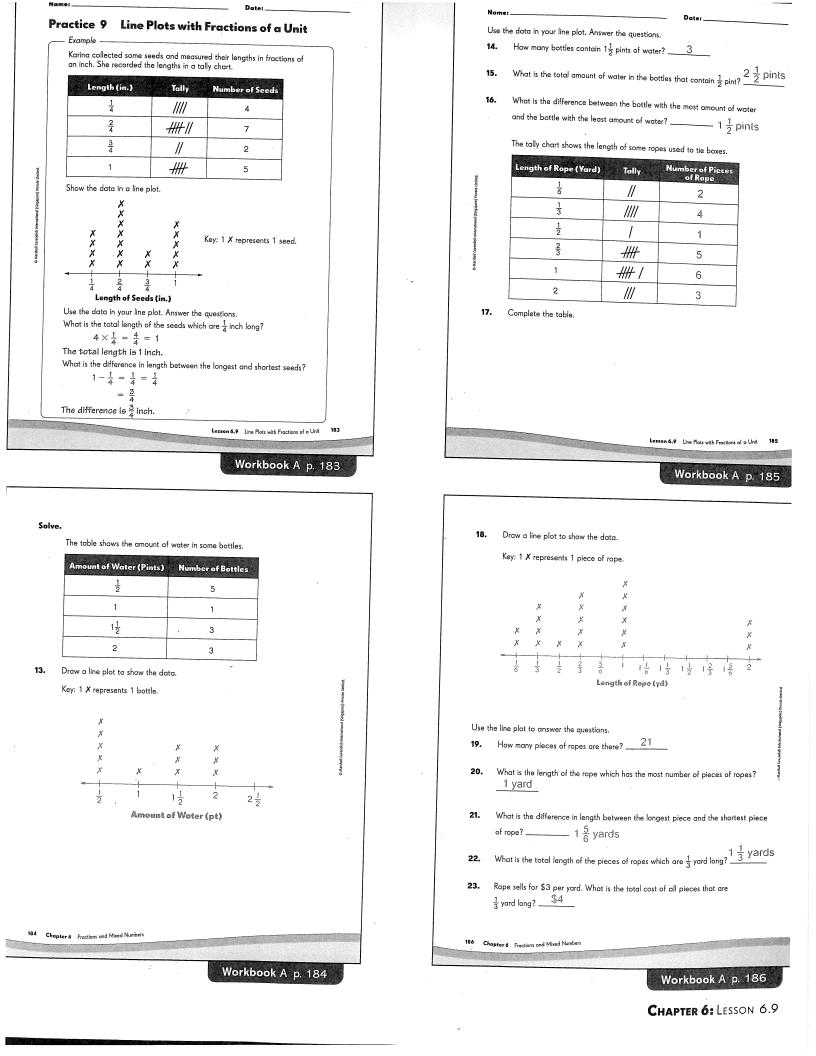
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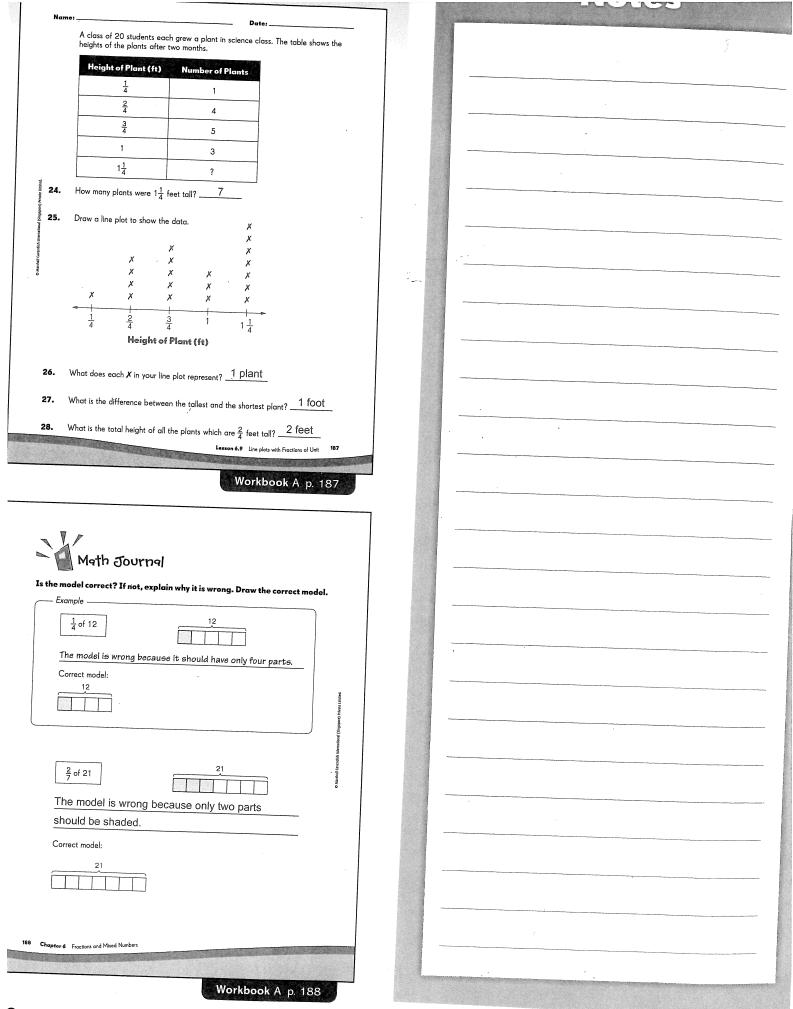


IAPTER 6: LESSON 6.8

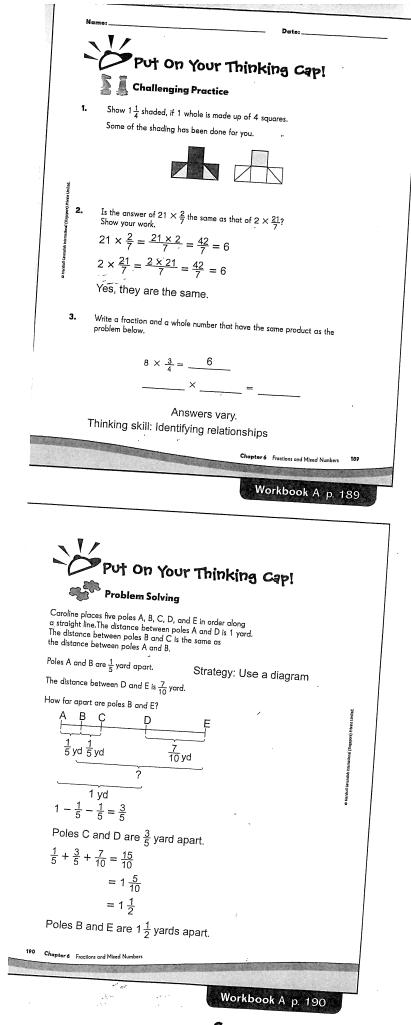


CHAPTER 6: LESSON 6.





CHAPTER 6: LESSON 6.9



Feacher Resources

umulative Review for Chapters 7 and 8

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den de la

38 Committee Design for Chapters 7 and 8

	Name: Date:
Name: Date:	Fill in the blanks. (Lesson 7.2)
	6 hundredths
Cumulative Review	29. 16 hundredths = 1 tenth number $1000000000000000000000000000000000000$
for Chapters 7 and 8	
	Mark X to show where each decimal is located on the number line Label its value. (Lesson 7.2)
Concepts and Skills Irite each fraction or mixed number as a decimal. (Lesson 7.1)	31 0.04 32. 0.15 33. 0.26
Vite each fraction or mixed managed are $\frac{4}{10} = \frac{0.4}{10}$ 2. $3\frac{3}{10} = \frac{3.3}{10}$ 3. $\frac{18}{10} = \frac{1.8}{10}$	0.04 0.15 (
	$\begin{array}{c} 0.04 \\ \bullet 10 \\ \bullet 1 \\ \bullet 1$
Nrite each decimal in tenths. (Lesson 7.1)	Complete. (Lesson 7.2)
5. $1.7 = \frac{17}{42}$ tenths	34. 5.2 = <u>5</u> ones and <u>2</u> tenths
5. $9.5 = \frac{95}{2}$ tenths 7. $4.2 = \frac{42}{2}$ tenths	35. $0.86 = 8$ tenths 6 hundredths
Write each of these as a decimal. (Lesson 7.1)	
3. 3 ones and 4 tenths = 3.4 9. 8 ones and 1 tenth = 8.1	36. $3.7 = 37$ tenths
6. 3 ones and 4 tenths $=$ 1 to tenths $=$ 6. 77 tenths $=$ 7. 11. 19 tenths $=$	37. 0.93 = <u>93</u> hundredths
0. 77 tenths = $$	Write each sum as a decimal . (Lesson 7.2)
Fill in the blanks. (Lesson 7.1)	38. $7 + 0.6 + 0.02 = -7.62$
12. 22 tenths = 2 ones and tenths	39. $10 + 0.4 + 0.04 = 10.44$
13. 3.2 = 3 ones and <u>2</u> tenths	
Write the correct decimal in each box. (Lesson 7.1)	40. $5 + \frac{1}{10} + \frac{8}{100} = \frac{5.18}{0.37}$
	41. 9 + $\frac{3}{10}$ + $\frac{7}{100}$ = <u>9.37</u>
0.1 1.0 1.3 2.0 2.8	
	Cumulative Review for C
Cumulative Review for Chapters 7 and 8 37	
	Workbo
Workbook B p. 37	
Complete the expanded form of each decimal. (Lesson 7.1)	Fill in the blanks. (Lesson 7.2) hundredths
	42. In 14.68, the digit 8 is in the pice. Its value is
02	Tt2 Agine iz
17. $3.6 = 3 + \underline{0.6}$ 18. $10.2 = 10 + \underline{0.2}$	Fill in the blanks. (Lesson 7.2)
Fill in the blanks. (Lesson 7.1)	43. $\$0.75 = \underline{75}$ cents
19. In 22.3, the digit 3 is in the <u>tenths</u> place.	44. $$12.25 = 1,225$ cents
Its value is	45. \$8.05 = <u>805</u> cents
Write each fraction or mixed number as a decimal. (Lesson 7.2)	Write each amount of money in decimal form. (Lesson 7.2) 65
20. $\frac{9}{100} = \frac{0.09}{0.09}$	46. $65 \text{ cents} = \$65$
21. $2\frac{26}{100} = \underline{2.26}$	47. 10 dollars and 90 cents = $\frac{10.90}{2000}$
1.05	48. 2 dollars and 5 cents = 2.05
22. $\frac{105}{100} = \frac{1.03}{100}$	Fill in the blanks. (Lesson 7.3)
Write each decimal in hundredths. (Lesson 7.2)	1.2
23. 0.06 = hundredths	49. 0.1 more than 1.1 is
24. 1.33 = <u>133</u> hundredths	50. 0.2 less than 2 is <u>1.8</u> .
250	51. 0.01 less than 0.1 is <u>0.09</u>
25. 2.5 = hundredths	52. 0.03 more than 0.07 is
Write each of these as a decimal. (Lesson 7.2)	
26. 2 ones and 6 hundredths = $\frac{2.06}{2.06}$	
$27. 5 \text{ tenths } 5 \text{ hundredths} = \underline{0.55}$	
28. 7 ones and 3 tenths 4 hundredths =	
28. 7 ones and 3 tenths 4 hundredths =	40 Cumulation Review for Chapters 7 and B

0.26

0.3

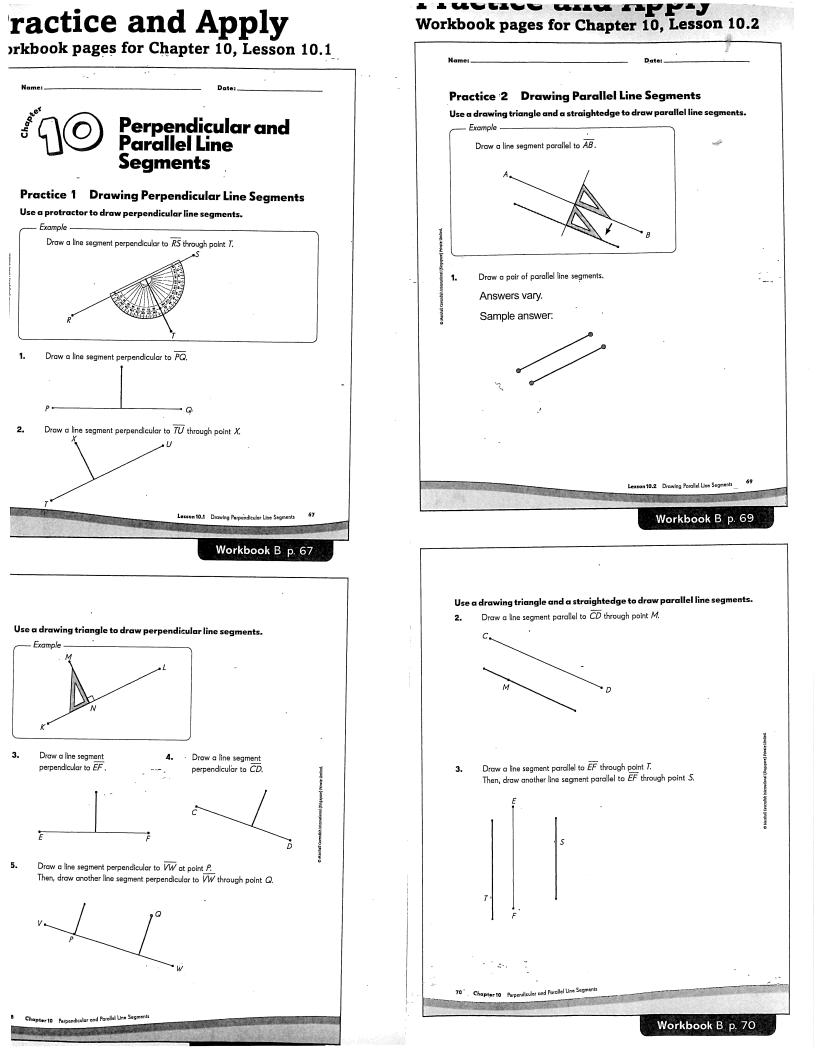
39

Cumulative Review for Chapters 7 and 8

Workbook B p. 39

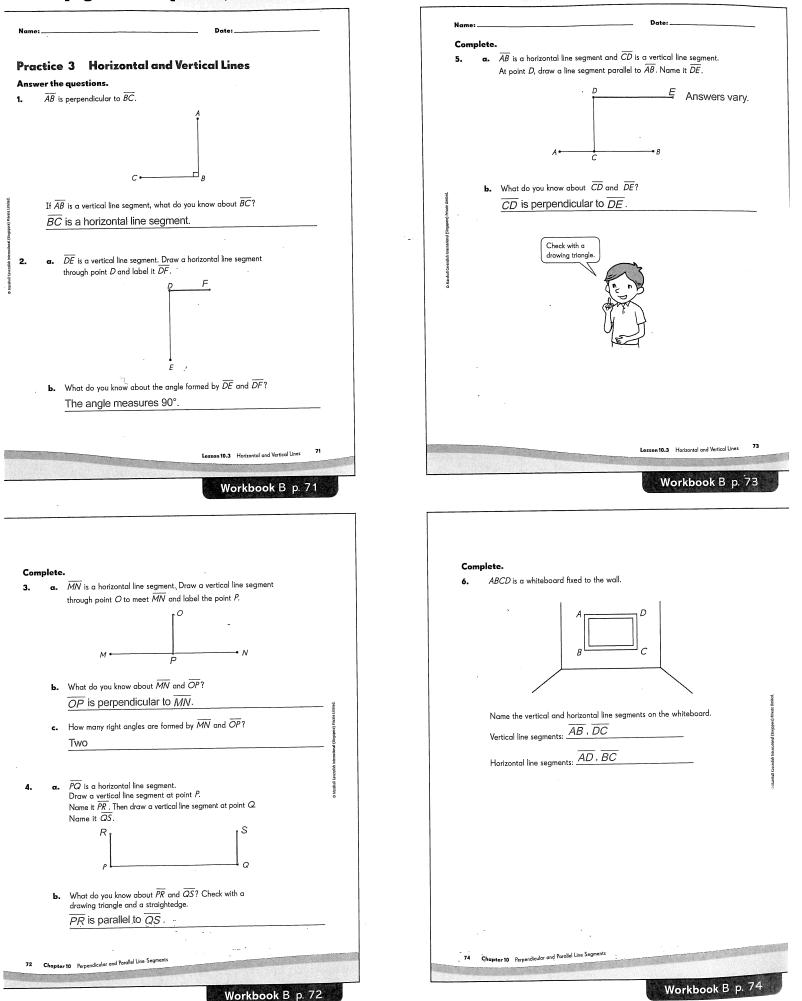
Mark 1 is show where and distant is backed on the number in the first term is a set distant is backed on the number in the first term is a set distant is backed on the set in $\frac{1}{2}$ $\frac{1}{$		All
Label at both the state of the	Name: Date:	Name: Date:
32. 216 34. 254 35. 252 35. 252 37. 352 37.	Mark X to show where each decimal is located on the number line. Label its value. (Lesson 7.3)	Problem Solving
$\frac{1}{2} + \frac{1}{2} + \frac{1}$		
Compare, White we chose r_{2} 25. 4 $1(\frac{1}{2}, \frac{1}{2})$ 45. $3.75 (\frac{1}{2}, 0.75)$ Crists by question during out the first the last $1(2)$ 27. Fill the half $1(2)$ 28. ($1/2)$ 29.	<, , , , , , , , , , , , , , , , , , , 	What number is Lina thinking of?
32. 41 () Att 34. 0.2 () 2.00 Grid to greatest doctained and and other to be set. 0, our 4.31 37. 16.4 () 37. 16.4 () 37. 16.4 () 38.3 () 36.3 () 3		
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Workbook B. p. 42	42 Cumulative Review for Chapters 7 and 8 2	Cumulative Review for Chapters
	Worthward D = 42	Workbook B. p. 44

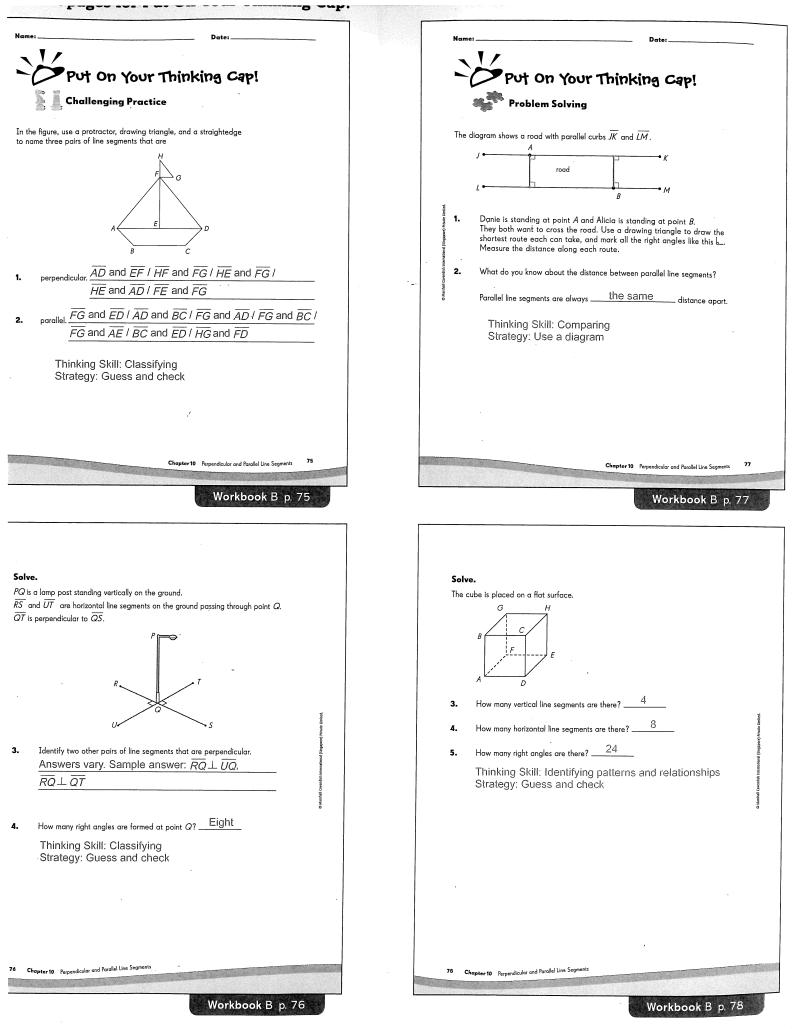
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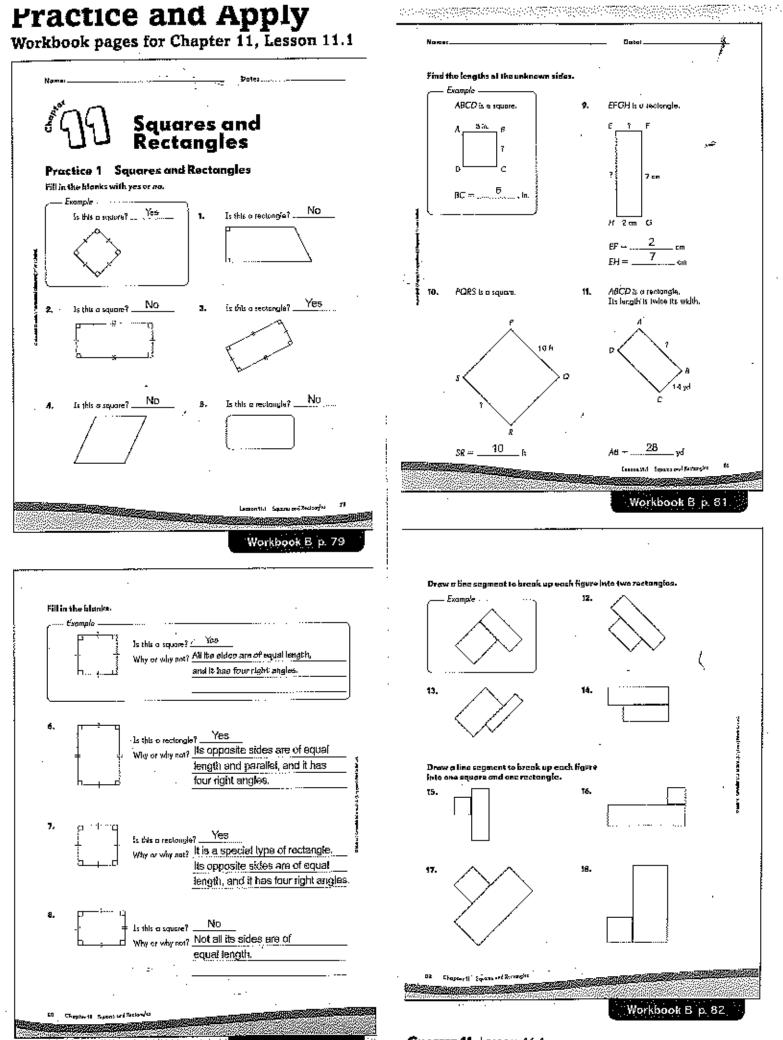


ractice and Apply

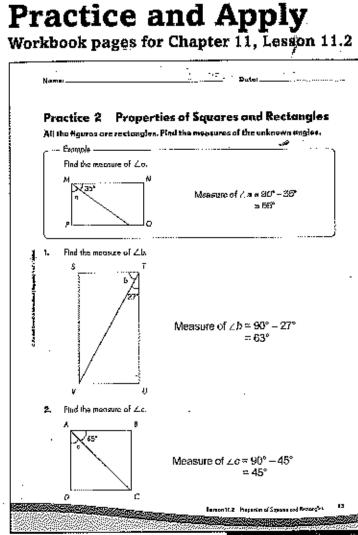
rkbook pages for Chapter 10, Lesson 10.3



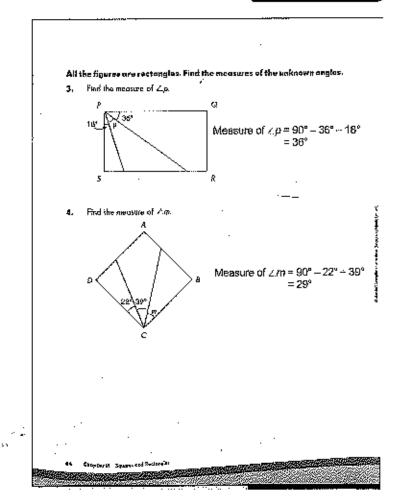


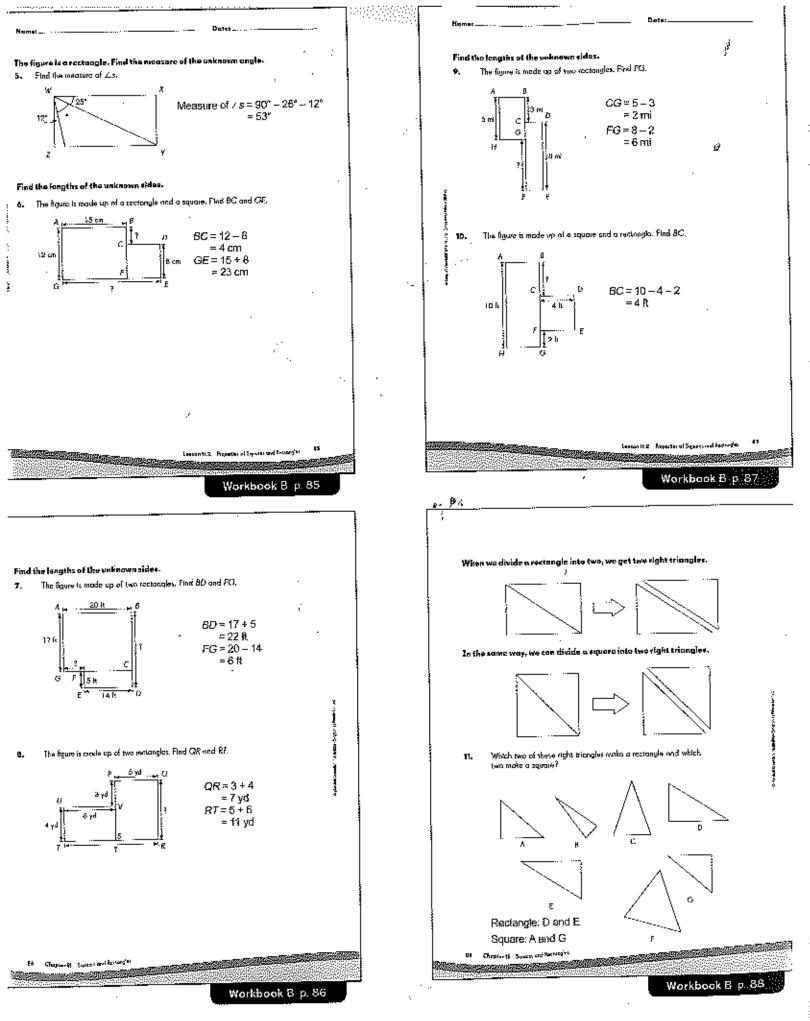


CHAPTER 11: LESSON 11.1



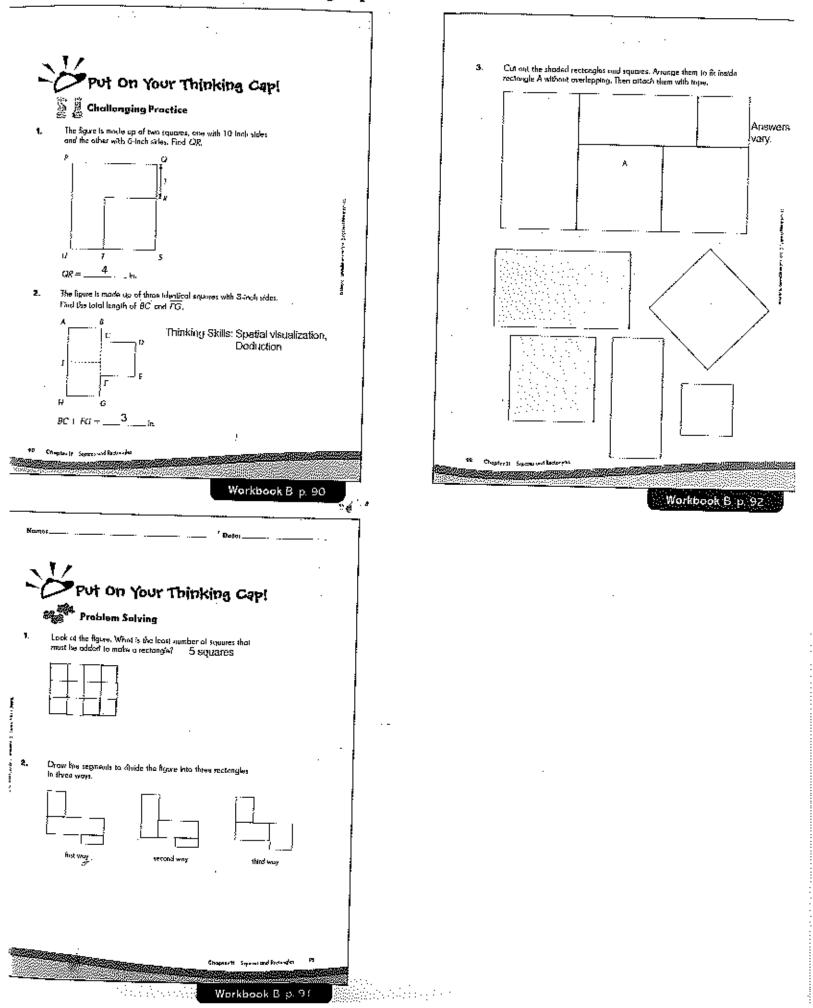
Workbook B p 83





CHAPTER 11: LESSON 11.2

FIACULE all APPIY Workbook pages for Put On Your Thinking Cap!



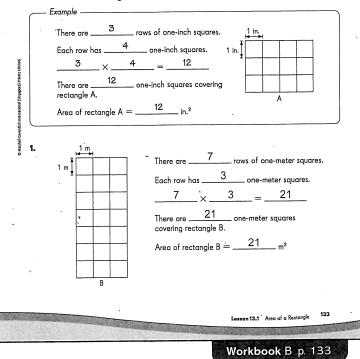
Practice and Apply

Workbook pages for Chapter 13, Lesson 13.1

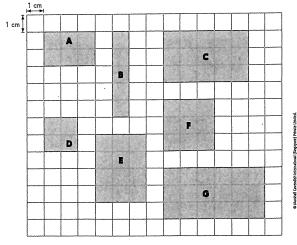


Practice 1 Area of a Rectangle

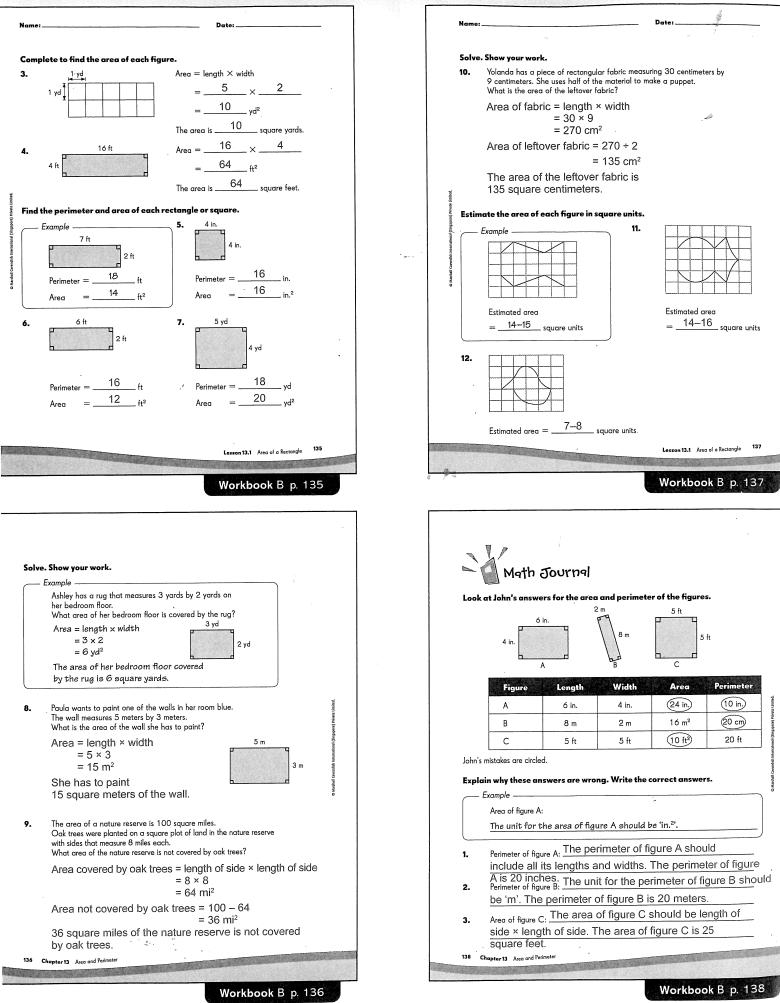
Find the area of each figure.



Look at the rectangles in the grid. Write the length, width, and area of each rectangle in the grid. Give your answers in the correct units. 2. <u>1 cm</u>

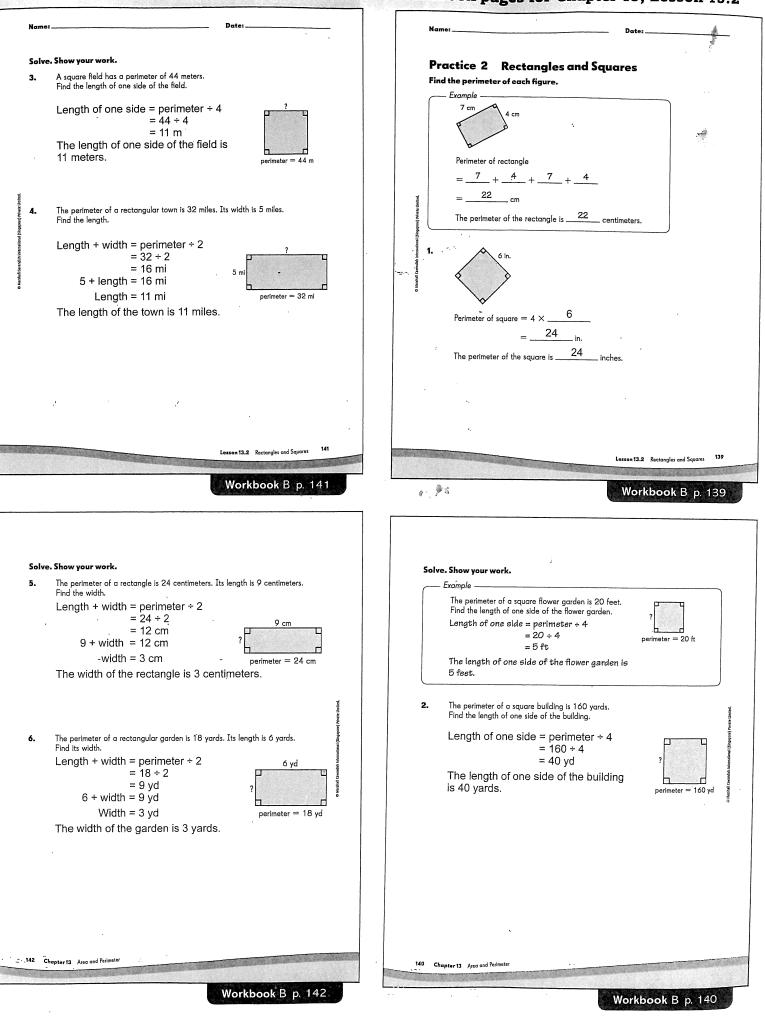


	Rectangle	Length	Width	Area = Length × Width
	A	3 cm	2 cm	6 cm ²
	В	5 cm	1 cm	5 cm ²
	. C	5 cm	3 cm	15 cm ²
	D	2 cm	2 cm	4 cm ²
	·Ε	4 cm	3 cm	12 cm ²
	F	3 cm .	3 cm	9 cm ²
j	G	6 cm	3 cm.	18 cm ²



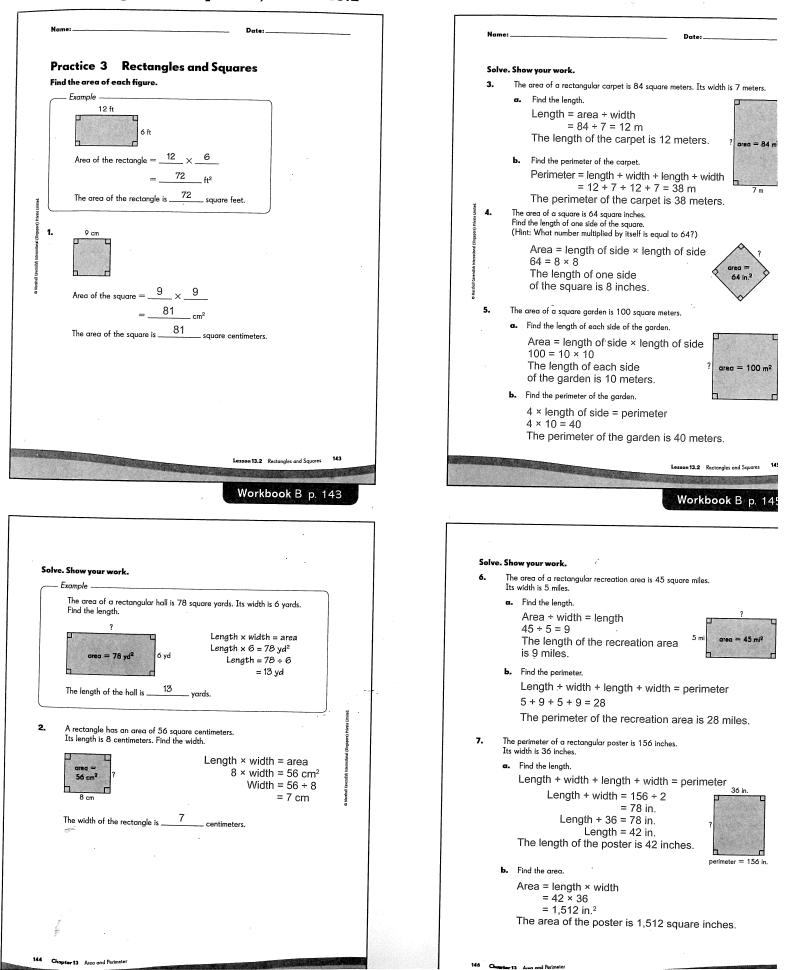
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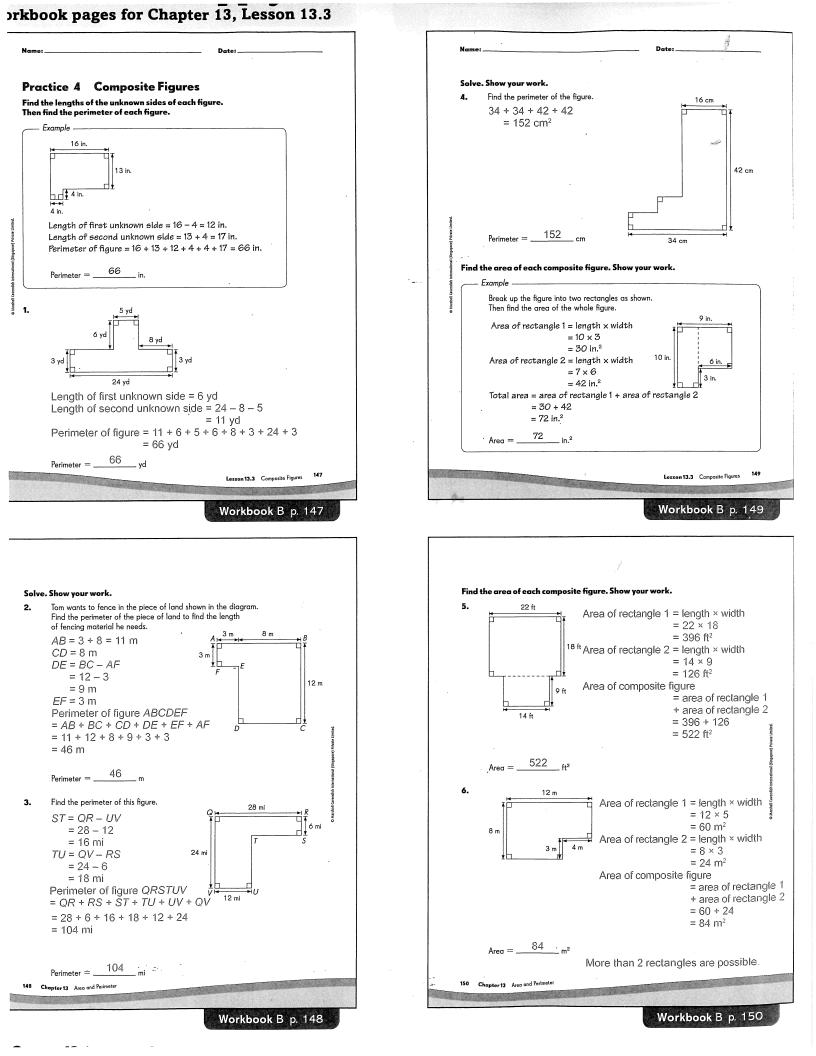
workbook pages for Chapter 13, Lesson 13.2



Practice and Apply

Workbook pages for Chapter 13, Lesson 13.2



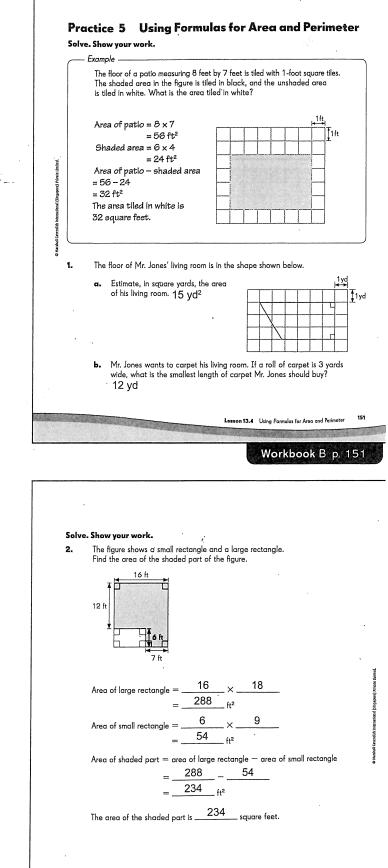


Practice and Apply

No

Workbook pages for Chapter 13, Lesson 13.4

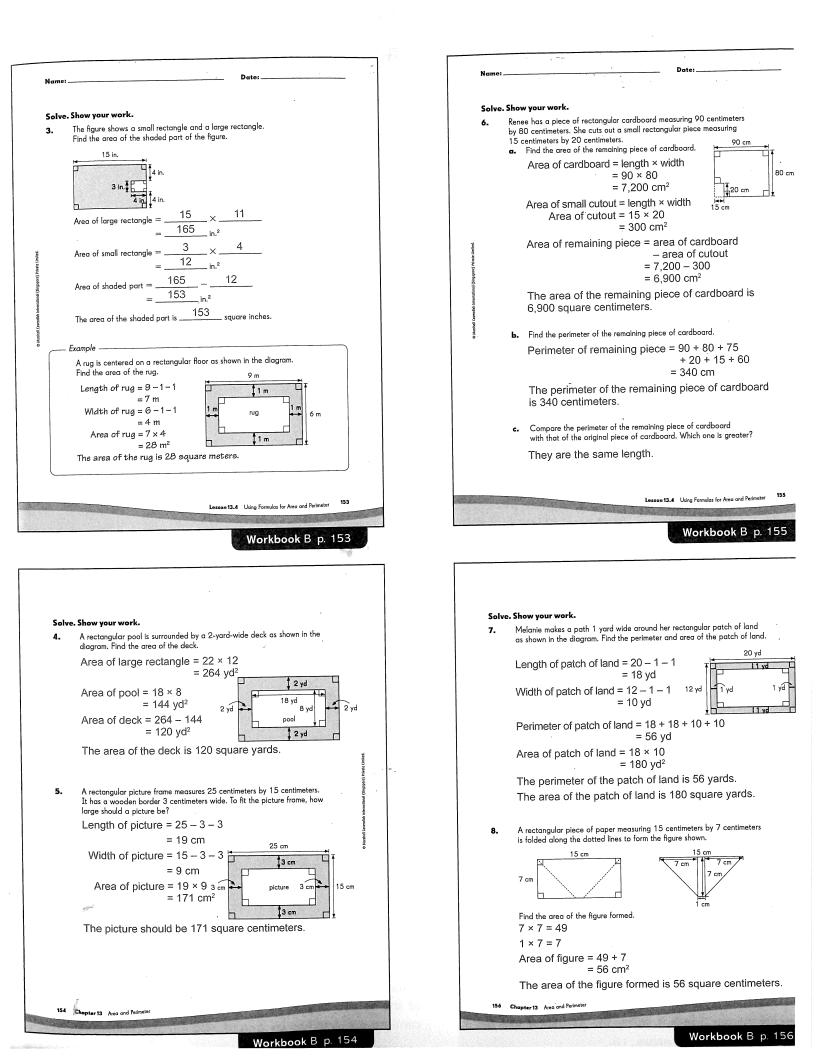
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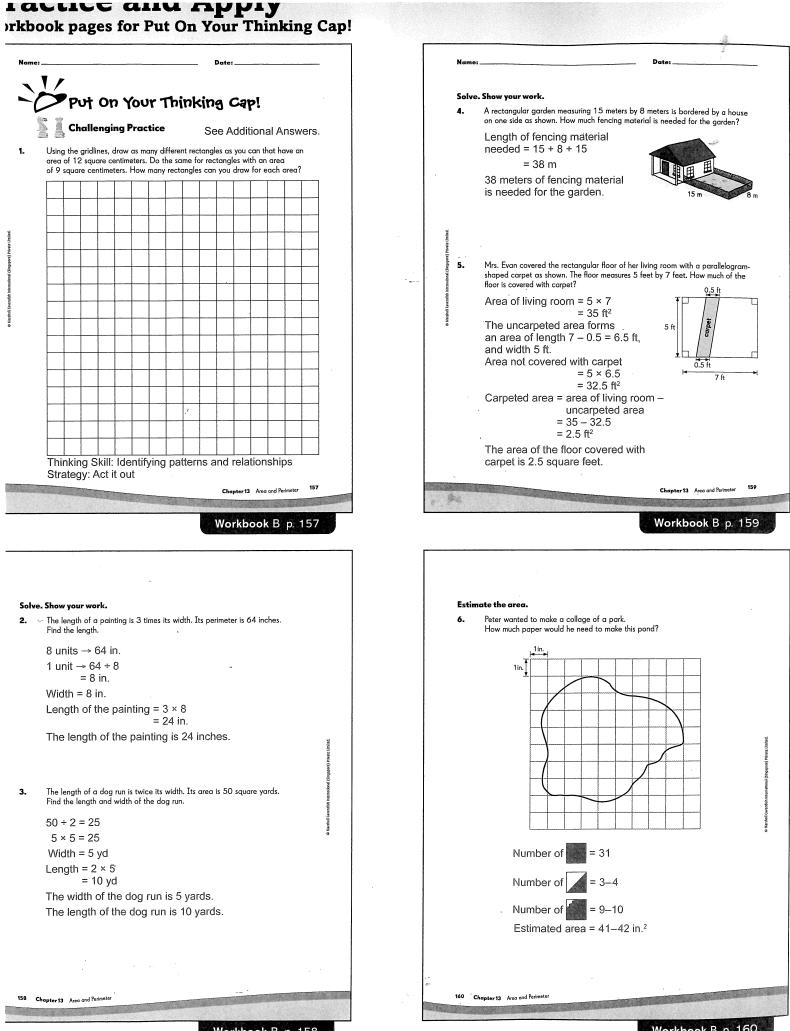


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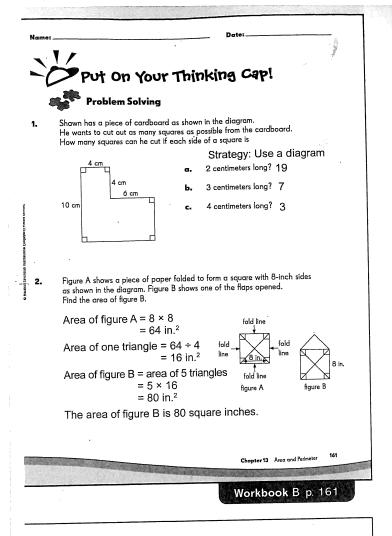
Chapter 13 Area and Perimeter





Workbook B p. 158

Workbook B p. 160



Solve. Show your work.

 The figure shows two squares. The area of the unshaded part of the figure is 9 square feet. If the sides of both the squares are whole numbers, find the perimeter of the unshaded part.

[1st Guess	2nd Guess	3rd Guess	4th Guess
Area of large	2 × 2	3 × 3	4 × 4 = 16 ft ²	5 × 5 = 25 ft ²
square Area of small	$= 4 \text{ ft}^2$ 1 × 1	$= 9 \text{ ft}^2$ 1 × 1	$\frac{-1011}{2 \times 2}$	$\frac{-25\pi}{4 \times 4}$
square	$= 1 \text{ ft}^2$	= 1 ft ²	$= 4 \text{ ft}^2$	= 16 ft ²
Area of unshaded part	3 ft ²	8 ft ²	12 ft ²	9 ft ²

From the 4th guess, side of big square = 5 ft side of small square = 4 ft.

Perimeter of the unshaded part

= 5 + 5 + 1 + 4 + 4 + 1

= 20 ft

Chapter 13 Area and Perimeter

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The perimeter of the unshaded part is 20 feet.