

Name \_\_\_\_\_

## Place the First Digit

**COMMON CORE STANDARD CC.5.NBT.6**

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Divide.

1.  $4 \overline{)388}$

2.  $4 \overline{)457}$

3.  $8 \overline{)712}$

4.  $9 \overline{)204}$

$$\begin{array}{r} 97 \\ 4 \overline{)388} \\ \underline{-36} \phantom{0} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

97

5.  $2,117 \div 3$

6.  $520 \div 8$

7.  $1,812 \div 4$

8.  $3,476 \div 6$

## Problem Solving



9. The school theater department made \$2,142 on ticket sales for the three nights of their play. The department sold the same number of tickets each night and each ticket cost \$7. How many tickets did the theater department sell each night?

10. Andreus made \$625 mowing yards. He worked for 5 consecutive days and earned the same amount of money each day. How much money did Andreus earn per day?

### Lesson Check (CC.5.NBT.6)

- Kenny is packing cans into bags at the food bank. He can pack 8 cans into each bag. How many bags will Kenny need for 1,056 cans?
  - 133
  - 132
  - 131
  - 130
- Liz polishes rings for a jeweler. She can polish 9 rings per hour. How many hours will it take her to polish 315 rings?
  - 45 hours
  - 35 hours
  - 25 hours
  - 15 hours

### Spiral Review (CC.5.NBT.2, CC.5.NBT.5, CC.5.NBT.6)

- Fiona uses 256 fluid ounces of juice to make 1 bowl of punch. How many fluid ounces of juice will she use to make 3 bowls of punch? (Lesson 1.7)
  - 56 fluid ounces
  - 128 fluid ounces
  - 512 fluid ounces
  - 768 fluid ounces
- Len wants to write the number 100,000 using a base of 10 and an exponent. What number should he use as the exponent? (Lesson 1.4)
  - 4
  - 5
  - 10
  - 100,000
- Family passes to an amusement park cost \$54 each. Which expression can be used to find the cost in dollars of 8 family passes? (Lesson 1.3)
  - $(8 + 50) + (8 + 4)$
  - $(8 + 50) \times (8 + 4)$
  - $(8 \times 50) + (8 \times 4)$
  - $(8 \times 50) \times (8 \times 4)$
- Gary is catering a picnic. There will be 118 guests at the picnic, and he wants each guest to have a 12-ounce serving of salad. How much salad should he make? (Lesson 1.7)
  - 216 ounces
  - 1,180 ounces
  - 1,416 ounces
  - 1,516 ounces

Name \_\_\_\_\_

## Divide by 1-Digit Divisors

**COMMON CORE STANDARD** CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Divide.

1.  $4 \overline{)724}$

2.  $5 \overline{)312}$

3.  $278 \div 2$

4.  $336 \div 7$

$$\begin{array}{r}
 181 \\
 4 \overline{)724} \\
 \underline{-4} \phantom{00} \\
 32 \phantom{0} \\
 \underline{-32} \phantom{0} \\
 04 \\
 \underline{-4} \\
 0
 \end{array}$$

181

Find the value of  $n$  in each equation. Write what  $n$  represents in the related division problem.

5.  $n = 3 \times 45$

6.  $643 = 4 \times 160 + n$

7.  $n = 6 \times 35 + 4$

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### Problem Solving



8. Randy has 128 ounces of dog food. He feeds his dog 8 ounces of food each day. How many days will the dog food last?

9. Angelina bought a 64-ounce can of lemonade mix. She uses 4 ounces of mix for each pitcher of lemonade. How many pitchers of lemonade can Angelina make from the can of mix?

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### Lesson Check (CC.5.NBT.6)

1. A color printer will print 8 pages per minute. How many minutes will it take to print a report that has 136 pages?  
 (A) 18 minutes  
 (B) 17 minutes  
 (C) 16 minutes  
 (D) 15 minutes
2. A postcard collector has 1,230 postcards. If she displays them on pages that hold 6 cards each, how many pages does she need?  
 (A) 230  
 (B) 215  
 (C) 205  
 (D) 125

### Spiral Review (CC.5.NBT.1, CC.5.NBT.5, CC.5.NBT.6)

3. Francis is buying a stereo system for \$196. She wants to pay for it in four equal monthly installments. What is the amount she will pay each month? (Lesson 2.1)  
 (A) \$39  
 (B) \$49  
 (C) \$192  
 (D) \$784
4. A bakery bakes 184 loaves of bread in 4 hours. How many loaves does the bakery bake in 1 hour? (Lesson 2.2)  
 (A) 736  
 (B) 180  
 (C) 92  
 (D) 46
5. Marvin collects trading cards. He stores them in boxes that hold 235 cards each. If Marvin has 4 boxes full of cards, how many cards does he have in his collection? (Lesson 1.6)  
 (A) 940  
 (B) 920  
 (C) 800  
 (D) 705
6. Which number has the digit 7 in the ten-thousands place? (Lesson 1.2)  
 (A) 810,745  
 (B) 807,150  
 (C) 708,415  
 (D) 870,541

Name \_\_\_\_\_

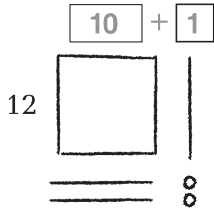
## Division with 2-Digit Divisors

COMMON CORE STANDARD CC.5.NBT.6

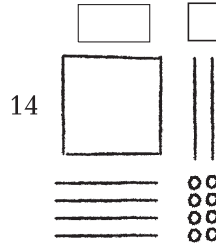
Perform operations with multi-digit whole numbers and with decimals to hundredths.

Use the quick picture to divide.

1.  $132 \div 12 = \underline{11}$



2.  $168 \div 14 = \underline{\quad}$



Divide. Use base-ten blocks.

3.  $195 \div 13 = \underline{\quad}$

4.  $143 \div 11 = \underline{\quad}$

5.  $165 \div 15 = \underline{\quad}$

Divide. Draw a quick picture.

6.  $192 \div 16 = \underline{\quad}$

7.  $169 \div 13 = \underline{\quad}$

## Problem Solving

REAL WORLD

8. There are 182 seats in a theater. The seats are evenly divided into 13 rows. How many seats are in each row?

\_\_\_\_\_

9. There are 156 students at summer camp. The camp has 13 cabins. An equal number of students sleep in each cabin. How many students sleep in each cabin?

\_\_\_\_\_

**Lesson Check** (CC.5.NBT.6)

1. There are 198 students in the soccer league. There are 11 players on each soccer team. How many soccer teams are there?  
 (A) 17  
 (B) 18  
 (C) 19  
 (D) 21
2. Jason earned \$187 for 17 hours of work. How much did Jason earn per hour?  
 (A) \$11  
 (B) \$12  
 (C) \$13  
 (D) \$14

**Spiral Review** (CC.5.OA.2, CC.5.NBT.1, CC.5.NBT.5, CC.5.NBT.6)

3. Which number represents six million, seven hundred thousand, twenty? (Lesson 1.2)  
 (A) 6,000,720  
 (B) 6,007,020  
 (C) 6,700,020  
 (D) 6,720,000
4. Which expression represents the sentence "Add the product of 3 and 6 to 4?" (Lesson 1.10)  
 (A)  $(4 + 3) \times 6$   
 (B)  $4 + (3 \times 6)$   
 (C)  $4 + (3 + 6)$   
 (D)  $4 \times 3 + 6$
5. To transport 228 people to an island, the island ferry makes 6 different trips. On each trip, the ferry carries the same number of people. How many people does the ferry transport on each trip? (Lesson 2.2)  
 (A) 36  
 (B) 37  
 (C) 38  
 (D) 39
6. Isabella sells 36 tickets to the school talent show. Each ticket costs \$14. How much money does Isabella collect for the tickets she sells? (Lesson 1.7)  
 (A) \$180  
 (B) \$384  
 (C) \$404  
 (D) \$504

Name \_\_\_\_\_

## Partial Quotients

**COMMON CORE STANDARD** CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Divide. Use partial quotients.

$$\begin{array}{r}
 1. \quad 18 \overline{)236} \\
 18 \overline{)236} \\
 \underline{-180} \leftarrow 10 \times 18 \quad | \quad 10 \\
 56 \\
 \underline{-54} \leftarrow 3 \times 18 \quad | \quad +3 \\
 2 \\
 \hline
 236 \div 18 \text{ is } 13 \text{ r}2.
 \end{array}$$

2.  $36 \overline{)540}$

3.  $27 \overline{)624}$

4.  $478 \div 16$

5.  $418 \div 22$

6.  $625 \div 25$

7.  $514 \div 28$

8.  $322 \div 14$

9.  $715 \div 25$

## Problem Solving



10. A factory processes 1,560 ounces of olive oil per hour. The oil is packaged into 24-ounce bottles. How many bottles does the factory fill in one hour?

\_\_\_\_\_

11. A pond at a hotel holds 4,290 gallons of water. The groundskeeper drains the pond at a rate of 78 gallons of water per hour. How long will it take to drain the pond?

\_\_\_\_\_

**Lesson Check** (CC.5.NBT.6)

1. Yvette has 336 eggs to put into cartons. She puts one dozen eggs into each carton. How many cartons does she fill?  
(A) 20  
(B) 21  
(C) 27  
(D) 28
2. Ned mows a 450 square-foot garden in 15 minutes. How many square feet of the garden does he mow in one minute?  
(A) 3 square feet  
(B) 30 square feet  
(C) 435 square feet  
(D) 465 square feet

**Spiral Review** (CC.5.NBT.1, CC.5.NBT.5, CC.5.NBT.6)

3. Raul has 56 bouncy balls. He puts three times as many balls into red gift bags as he puts into green gift bags. If he puts the same number of balls into each bag, how many balls does he put into green bags? (Lesson 1.9)  
(A) 42  
(B) 19  
(C) 14  
(D) 12
4. Marcia uses 5 ounces of chicken stock to make one batch of soup. She has a total of 400 ounces of chicken stock. How many batches of soup can Marcia make? (Lesson 2.2)  
(A) 50  
(B) 80  
(C) 200  
(D) 2,000
5. Michelle buys 13 bags of gravel for her fish aquarium. If each bag weighs 12 pounds, how many pounds of gravel did she buy? (Lesson 1.7)  
(A) 156 pounds  
(B) 143 pounds  
(C) 130 pounds  
(D) 26 pounds
6. Which of the following represents 4,305,012 in expanded notation? (Lesson 1.2)  
(A)  $400,000 + 30,000 + 5,000 + 12$   
(B)  $40,000 + 3,000 + 500 + 10 + 2$   
(C)  $4,000,000 + 300,000 + 5,000 + 100 + 2$   
(D)  $4,000,000 + 300,000 + 5,000 + 10 + 2$



Name \_\_\_\_\_

**Estimate with 2-Digit Divisors****COMMON CORE STANDARD** CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Use compatible numbers to find two estimates.

1.  $18 \overline{)1,322}$

2.  $17 \overline{)1,569}$

3.  $27 \overline{)735}$

4.  $12 \overline{)478}$

$1,200 \div 20$

$= 60$

$1,400 \div 20$

$= 70$

5.  $336 \div 12$

6.  $1,418 \div 22$

7.  $16 \overline{)2,028}$

8.  $2,242 \div 33$


Use compatible numbers to estimate the quotient.

9.  $82 \overline{)5,514}$

10.  $61 \overline{)5,320}$

11.  $28 \overline{)776}$

12.  $23 \overline{)1,624}$

**Problem Solving** REAL WORLD

13. A cubic yard of topsoil weighs 4,128 pounds. About how many 50-pound bags of topsoil can you fill with one cubic yard of topsoil?

\_\_\_\_\_

14. An electronics store places an order for 2,665 USB flash drives. One shipping box holds 36 flash drives. About how many boxes will it take to hold all the flash drives?

\_\_\_\_\_

**Lesson Check** (CC.5.NBT.6)

1. Marcy has 567 earmuffs in stock. If she can put 18 earmuffs on each shelf, about how many shelves does she need for all the earmuffs?  
**(A)** about 20  
**(B)** about 30  
**(C)** about 570  
**(D)** about 590
2. Howard pays \$327 for one dozen collector's edition baseball cards. About how much does he pay for each baseball card?  
**(A)** about \$20  
**(B)** about \$30  
**(C)** about \$45  
**(D)** about \$50

**Spiral Review** (CC.5.NBT.1, CC.5.NBT.5, CC.5.NBT.6)

3. Andrew can frame 9 pictures each day. He has an order for 108 pictures. How many days will it take him to complete the order? **(Lesson 2.2)**  
**(A)** 10 days  
**(B)** 11 days  
**(C)** 12 days  
**(D)** 13 days
4. Madeleine can type 3 pages in one hour. How many hours will it take her to type a 123-page report? **(Lesson 2.2)**  
**(A)** 65 hours  
**(B)** 45 hours  
**(C)** 41 hours  
**(D)** 22 hours
5. Suppose you round 43,257,529 to 43,300,000. To what place value did you round the number? **(Lesson 1.2)**  
**(A)** hundred thousands  
**(B)** ten thousands  
**(C)** thousands  
**(D)** tens
6. Grace's catering received an order for 118 apple pies. Grace uses 8 apples to make one apple pie. How many apples does she need to make all 118 pies? **(Lesson 1.6)**  
**(A)** 110  
**(B)** 126  
**(C)** 884  
**(D)** 944

Name \_\_\_\_\_

**Divide by 2-Digit Divisors****COMMON CORE STANDARD** CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Divide. Check your answer.

1.  $385 \div 12$

2.  $837 \div 36$

3.  $1,650 \div 55$

4.  $5,634 \div 18$

$$\begin{array}{r}
 32 \text{ r}1 \\
 \overline{12)385} \\
 \underline{-36} \phantom{0} \\
 25 \\
 \underline{-24} \\
 1
 \end{array}$$

5.  $7,231 \div 24$

6.  $5,309 \div 43$

7.  $37 \overline{)3,774}$

8.  $54 \overline{)1,099}$

9.  $28 \overline{)6,440}$

10.  $52 \overline{)5,256}$

11.  $85 \overline{)1,955}$

12.  $46 \overline{)5,624}$

**Problem Solving** 

13. The factory workers make 756 machine parts in 36 hours. Suppose the workers make the same number of machine parts each hour. How many machine parts do they make each hour?

14. One bag holds 12 bolts. Several bags filled with bolts are packed into a box and shipped to the factory. The box contains a total of 2,760 bolts. How many bags of bolts are in the box?

### Lesson Check (CC.5.NBT.6)

1. A bakery packages 868 cupcakes into 31 boxes. The same number of cupcakes are put into each box. How many cupcakes are in each box?  

(A) 28  
(B) 37  
(C) 38  
(D) 47
2. Maggie orders 19 identical gift boxes. The Ship-Shape Packaging Company packs and ships the boxes for \$1,292. How much does it cost to pack and ship each box?  

(A) \$58  
(B) \$64  
(C) \$68  
(D) \$78

### Spiral Review (CC.5.NBT.1, CC.5.NBT.6)

3. What is the standard form of the number four million, two hundred sixteen thousand, ninety? (Lesson 1.2)  

(A) 4,260,090  
(B) 4,216,900  
(C) 4,216,090  
(D) 4,216,019
4. Kelly and 23 friends go roller skating. They pay a total of \$186. About how much does it cost for one person to skate? (Lesson 2.5)  

(A) about \$9  
(B) about \$15  
(C) about \$25  
(D) about \$200
5. In two days, Gretchen drinks seven 16-ounce bottles of water. She drinks the water in 4 equal servings. How many ounces of water does Gretchen drink in each serving? (Lesson 1.9)  

(A) 112 ounces  
(B) 28 ounces  
(C) 12 ounces  
(D) 4 ounces
6. What is the value of the underlined digit in 5,436,788? (Lesson 1.2)  

(A) 4  
(B) 400  
(C) 40,000  
(D) 400,000

Name \_\_\_\_\_

**Interpret the Remainder****COMMON CORE STANDARD** CC.5.NF.3

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

**Interpret the remainder to solve.**

- Warren spent 140 hours making 16 wooden toy trucks for a craft fair. If he spent the same amount of time making each truck, how many hours did he spend making each truck?
- Marcia has 412 bouquets of flowers for centerpieces. She uses 8 flowers for each centerpiece. How many centerpieces can she make?

$$\begin{array}{r} 8 \\ 16 \overline{)140} \\ \underline{-128} \\ 12 \end{array}$$

 $8\frac{3}{4}$  hours
 

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- On the 5th grade class picnic, 50 students share 75 sandwiches equally. How many sandwiches does each student get?
  - One plant container holds 14 tomato seedlings. If you have 1,113 seedlings, how many containers do you need to hold all the seedlings?
- 

**Problem Solving** 

- Fiona bought 212 stickers to make a sticker book. If she places 18 stickers on each page, how many pages will her sticker book have?
  - Jenny has 220 ounces of cleaning solution that she wants to divide equally among 12 large containers. How much cleaning solution should she put in each container?
-

**Lesson Check** (CC.5.NF.3)

- Henry and 28 classmates go to the roller skating rink. Each van can hold 11 students. If all of the vans are full except one, how many students are in the van that is not full?  
(A) 1  
(B) 2  
(C) 6  
(D) 7
- Candy buys 20 ounces of mixed nuts. She puts an equal number of ounces in each of 3 bags. How many ounces of mixed nuts will be in each bag?  
(A) 7 ounces  
(B)  $6\frac{2}{3}$  ounces  
(C) 6 ounces  
(D) 2 ounces

**Spiral Review** (CC.5.NBT.5, CC.5.NBT.6)

- Jayson earns \$196 each week bagging groceries at the store. He saves half his earnings each week. How much money does Jayson save per week? (Lesson 2.2)  
(A) \$92  
(B) \$98  
(C) \$102  
(D) \$106
- Desiree swims laps for 25 minutes each day. How many minutes does she spend swimming laps in 14 days? (Lesson 1.7)  
(A) 29 minutes  
(B) 125 minutes  
(C) 330 minutes  
(D) 350 minutes
- Steve is participating in a bike-a-thon for charity. He will bike 144 miles per day for 5 days. How many miles will Steve bike in all? (Lesson 1.6)  
(A) 360 miles  
(B) 620 miles  
(C) 720 miles  
(D) 820 miles
- Kasi is building a patio. He has 136 bricks. He wants the patio to have 8 rows, each with the same number of bricks. How many bricks will Kasi put in each row? (Lesson 2.2)  
(A) 17  
(B) 18  
(C) 128  
(D) 1,088



### Lesson Check (CC.5.NBT.6)

- Gail ordered 5,675 pounds of flour for the bakery. The flour comes in 25-pound bags. How many bags of flour will the bakery receive?
  - 203
  - 227
  - 230
  - 5,650
- Simone is in a bike-a-thon for a fundraiser. She receives \$15 in pledges for every mile she bikes. If she wants to raise \$510, how many miles does she need to bike?
  - 32 miles
  - 34 miles
  - 52 miles
  - 495 miles

### Spiral Review (CC.5.OA.2, CC.5.NBT.1, CC.5.NBT.6)

- Lina makes beaded bracelets. She uses 9 beads to make each bracelet. How many bracelets can she make with 156 beads? (Lesson 2.2)
  - 12
  - 14
  - 17
  - 18
- Which number is less than 6,789,405? (Lesson 1.2)
  - 6,789,398
  - 6,789,599
  - 6,809,405
  - 6,879,332
- A total of 1,056 students from different schools enter the county science fair. Each school enters exactly 32 students. How many schools participate in the science fair? (Lesson 2.6)
  - 33,792
  - 352
  - 34
  - 33
- Christy buys 48 barrettes. She shares the barrettes equally between herself and her 3 sisters. Which expression represents the number of barrettes each girl gets? (Lesson 1.10)
  - $\frac{48}{3} + 1$
  - $48 \div (3 + 1)$
  - $\frac{48}{3}$
  - $48 - 3$



## PROBLEM SOLVING Lesson 2.4

Name \_\_\_\_\_

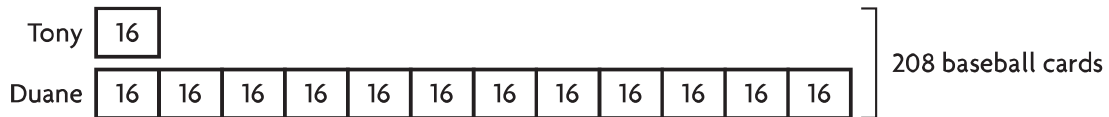
### Problem Solving • Division

COMMON CORE STANDARD CC.5.NBT.6

Perform operations with multi-digit whole numbers and with decimals to hundredths.

Show your work. Solve each problem.

1. Duane has 12 times as many baseball cards as Tony. Between them, they have 208 baseball cards. How many baseball cards does each boy have?



$$208 \div 13 = 16$$

Tony: 16 cards; Duane: 192 cards

2. Hallie has 10 times as many pages to read for her homework assignment as Janet. Altogether, they have to read 264 pages. How many pages does each girl have to read?
- \_\_\_\_\_

3. Hank has 48 fish in his aquarium. He has 11 times as many tetras as guppies. How many of each type of fish does Hank have?
- \_\_\_\_\_

4. Kelly has 4 times as many songs on her music player as Lou. Tiffany has 6 times as many songs on her music player as Lou. Altogether, they have 682 songs on their music players. How many songs does Kelly have?
- \_\_\_\_\_

### Lesson Check (CC.5.NBT.6)

1. Chelsea has 11 times as many art brushes as Monique. If they have 60 art brushes altogether, how many brushes does Chelsea have?  
(A) 5  
(B) 11  
(C) 49  
(D) 55
2. Jo has a gerbil and a German shepherd. The shepherd eats 14 times as much food as the gerbil. Altogether, they eat 225 ounces of dry food per week. How many ounces of food does the German shepherd eat per week?  
(A) 225 ounces  
(B) 210 ounces  
(C) 15 ounces  
(D) 14 ounces

### Spiral Review (CC.5.NBT.5, CC.5.NBT.6, CC.5.NF.3)

3. Jeanine is twice as old as her brother Marc. If the sum of their ages is 24, how old is Jeanine? (Lesson 1.9)  
(A) 16  
(B) 12  
(C) 8  
(D) 3
4. Larry is shipping nails that weigh a total of 53 pounds. He divides the nails equally among 4 shipping boxes. How many pounds of nails does he put in each box? (Lesson 2.7)  
(A) 4 pounds  
(B) 13 pounds  
(C)  $13\frac{1}{4}$  pounds  
(D) 14 pounds
5. Annie plants 6 rows of small flower bulbs in a garden. She plants 132 bulbs in each row. How many bulbs does Annie plant in all? (Lesson 1.6)  
(A) 738  
(B) 792  
(C) 924  
(D) 984
6. Next year, four elementary schools will each send 126 students to Bedford Middle School. What is the total number of students the elementary schools will send to the middle school? (Lesson 1.6)  
(A) 46  
(B) 344  
(C) 444  
(D) 504

Name \_\_\_\_\_

## Chapter 2 Extra Practice

### Lessons 2.1 - 2.2

Divide.

1.  $8\overline{)346}$

\_\_\_\_\_

2.  $6\overline{)1,914}$

\_\_\_\_\_

3.  $8\overline{)1,898}$

\_\_\_\_\_

4.  $4\overline{)952}$

\_\_\_\_\_

5.  $3,629 \div 9$

\_\_\_\_\_

6.  $2,961 \div 7$

\_\_\_\_\_

7.  $3\overline{)4,276}$

\_\_\_\_\_

8.  $6\overline{)3,251}$

\_\_\_\_\_

9.  $1,664 \div 5$

\_\_\_\_\_

### Lessons 2.3 - 2.6

Estimate. Then divide.

1.  $19\overline{)1,425}$

\_\_\_\_\_

2.  $2,384 \div 23$

\_\_\_\_\_

3.  $378 \div 56$

\_\_\_\_\_

## Lesson 2.7

Interpret the remainder to solve.

1. Matthew is packing 195 glasses into cartons. Each carton can hold 18 glasses. How many cartons does Matthew need?
2. Julia wants to make 8 bows using 18 feet of ribbon. She wants to use an equal length of ribbon for each bow with no ribbon left over. How many feet of ribbon can she use for each bow?

## Lesson 2.8

Divide.

1.  $32 \overline{)549}$

2.  $1,296 \div 36$

3.  $588 \div 84$

4.  $12 \overline{)320}$

5.  $53 \overline{)6,681}$

6.  $6,370 \div 29$

## Lesson 2.9

Solve.

1. Greenboro gets 12 times as many inches of snow as Redville gets. Altogether, the two towns get 65 inches of snow. How many inches of snow does Redville get?
2. In one month, Ansley runs 15 times as many miles as Zack runs. Altogether, they run 192 miles. How many miles does Ansley run in one month?