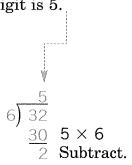
## Lesson 1 Division (2-digit)

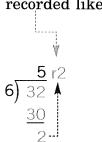
Study how to divide 32 by 6.

$\times$	1	2	3	4	5	6_
6	6	12	18	24	30	36

32 is between 30 and 36, so 32÷6 is between 5 and 6. The ones digit is 5.

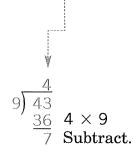


Since 32-30=2 and 2 is less than 6, the remainder 2 is recorded like this:

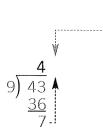


Study how to divide 43 by 9.

43 is between 36 and 45, so 43÷9 is between 4 and 5. The ones digit is 4.



Since 43-36=7 and 7 is less than 9, the remainder is 7.



$$\boldsymbol{c}$$

### **Lesson 1** Problem Solving

Solve each problem. 1. How many pieces of rope 4 m long can be cut from | 1. 15 m of rope? How much rope will be left over? \_\_\_\_ pieces can be cut. \_\_\_\_ m will be left over. 2. Dale has 51¢. Magic rings cost 8¢ each. How many magic rings can he buy? How much money will he have left? Dale can buy \_\_\_\_\_ magic rings. He will have \_\_\_\_\_ ¢ left. 3. Maria has a board that is 68 cm long. How many 3. 9-cm pieces can be cut from this board? How long is the piece that is left? \_\_\_\_ pieces can be cut. \_\_\_\_\_ cm will be left. 4. 28 L of water was used to fill buckets that hold 5L each. How many buckets were filled? How much water was left over? \_\_\_\_\_ buckets were filled. \_\_\_\_\_ L of water were left over. 5. It takes 8 min to make a doodad. How many doodads can be made in 60 min? How much time would be left to begin making another doodad?

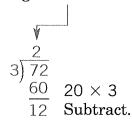
\_\_\_\_\_ doodads can be made.

\_\_\_\_ min would be left.

# Lesson 2 Division (2-digit)

Study how to divide 72 by 3.

72 is between 60 and 90, so 72÷3 is between 20 and 30. The tens digit is 2.



 $4\times3=12$ , so the ones digit is 4.

 $\frac{12}{0}$  4 × 3 Subtract.

a

b

c

d

e

# Lesson 2 Problem Solving

50.	lve each problem.		
	Ninety-nine students are to be separated into nine groups. The same number of students is to be in each group. How many students will be in each group?	1.	2.
	students will be in each group.		
2.	There are 94 grapefruit in a crate. How many bags of six grapefruit each can be filled by using the grapefruit from one crate? How many grapefruit will be left over?		
	bags can be filled.		
	grapefruit will be left over.		
3.	Ms. McClean has 60 golf balls in tins of three. How many tins of golf balls does she have?	3.	4.
	She has tins of golf balls.		
4.	There are 96 jelly beans in a bowl. How many people can take seven jelly beans each? How many jelly beans will be left over?		
	people can take seven jelly beans.		
	jelly beans will be left over.		
5.	Toy cars are packed into boxes of eight cars each. How many boxes will be needed to pack 96 toy cars?	5.	6.
	boxes will be needed.		
6.	You have 64 pennies to exchange for nickels. How many nickels will you get? How many pennies will be left?		
	You will get nickels.		
	pennies will be left.		

# Lesson 3 Division (2-digit)

Divide.

a

b

c

d

e

**1.** 3) 23

5) 46

7) 67

9) 85

8) 69

**2.** 2) 28

3) 36

4) 4 4

3) 93

4) 84

**3.** 5) 85

6) 96

8) 96

7) 98

9) 90

**4.** 7) 74

5) 57

8) 99

2) 85

3) 65

**5.** 3) 79

5) 67

6) 97

4) 94

7) 89

### **Lesson 3** Problem Solving

Solve each problem. 1. Paul has 75 stamps. His album will hold nine 1. 2. stamps per page. How many pages can he fill? How many stamps will be left over? He can fill \_\_\_\_\_ pages. \_\_\_\_\_ stamps will be left over. 2. Kelsey has 96 stamps. Her album will hold six stamps per page. How many pages can she fill? She can fill \_\_\_\_\_ pages. **3.** Seventy-seven stamps are given to a stamp club. 3. 4. Each of the seven members is to receive the same number of stamps. How many stamps will each member get? Each of the members will get \_\_\_\_\_ stamps. 4. Anne has 87¢. What is the greatest number of nickels she could have? What is the least number of pennies she could have? She could have at most \_\_\_\_\_ nickels. She could have as few as \_\_\_\_\_ pennies. **5.** Fifty-four students are to be separated into teams of 5. 6. nine students each. How many teams can be formed? \_\_\_\_\_ teams can be formed. 6. Rex has 63 empty bottles. He wants to put them into cartons of eight bottles each. How many cartons can he fill? How many bottles will be left over?

\_\_\_\_ cartons can be filled.

\_\_\_\_\_ bottles will be left over.

# Lesson 4 Division (3-digit)

Study how to divide 263 by 5.

Since  $100 \times 5 = 500$  and 500 is greater than 263, there is no hundreds digit.

×|10| 20 | 30 | 40 | 50 | 60 5 | 50 | 100 | 150 | 120 | 250 | 300

263 is between 250 and 300. 263 ÷ 5 is between 50 and 60. The tens digit is 5.

13 is between 10 and 15. 13 ÷ 5 is between 2 and 3. The ones digit is 2.

### Lesson 4 Problem Solving



Solve each problem.

1.	A truck driver drove from Edmonton to Calgary in
	3 h. The same distance was driven each hour. How
	many kilometres were driven each hour?

\_\_\_\_\_ km were driven each hour.

2.	A bus left Ottawa and arrived in Toronto 5 h later				
	The bus went the same distance each hour. How	V			
	many kilometres were travelled each hour?				

\_\_\_\_\_ km were travelled each hour.

3.	Suppose	the	same	distance	is	driven	each	hour.
	How man	ny ki	lometr	es must	be o	driven e	each h	our to
	go from V	Vanc	ouver 1	to Prince	Ge	orge in	8 h?	

\_\_\_\_\_ km must be driven each hour.

**4.** The Jetts' plan is to drive from Vancouver to Kelowna in 5 h. Suppose they travel the same distance each hour. How many kilometres must they travel each hour?

\_\_\_\_\_ km must be driven each hour.

**5.** Suppose the same distance is travelled each hour. How many kilometres must be travelled each hour to go from Edmonton to Saskatoon in 5 h?

\_\_\_\_\_ km must be travelled each hour.

2. 3.

1.

5.

# Lesson 5 Division (3-digit)

Study how to divide 813 by 4.

$\times$	100	200	300
4	400	800	1200

813 is between 800 and 1200, so 813÷4 is between 200 and 300. The hundreds digit is 2.

Since  $10 \times 4 = 40$  and 40 is greater than 13, the tens digit is 0.

13 is between 12 and 16, so 13÷4 is between 3 and 4. The ones digit is 3.

Divide.

## Lesson 5 Problem Solving

Solve each problem.

1.	Mrs. Steel needs 960 trading stamps to fill a book. These stamps will fill eight pages with the same number of stamps on each page. How many stamps are needed to fill each page?	1.	
	stamps are needed to fill each page.		
2.	There are 576 pencils in four cases. There are the same number of pencils in each case. How many pencils are in each case?	2.	3.
	There are pencils in each case.		
3.	There are 532 apples in all. How many sacks of five apples each can be filled? How many apples will be left over?		
	sacks can be filled.		
	apples will be left over.		
4.	At a factory, 968 items were manufactured during an 8-h shift. The same number was manufactured each hour. How many items were manufactured each hour?	4.	5.
	items were manufactured each hour.		
5.	The West Side Bridge is 540 m long. It consists of four sections of the same length. How long is each section?		
	Each section is m long.		
6.	A full load for a dry cleaning machine is five suits. There are 624 suits to be cleaned. How many full loads will there be? How many suits will be in the partial load?	6.	7.
	There will be full loads.		
	There will be suits in the partial load.		
7.	A carpenter uses 15 nails to shingle 1 m <sup>2</sup> of roof. At that rate, how many square metres of roof could be shingled by using 750 nails?		
	m <sup>2</sup> could be shingled.		

# Lesson 6 Division (3-digit)

Divide.

a

b

c

d

e

6) 486

3) 249

7) 553

8) 624

4) 357

9) 758

6) 525

3) 269

2) 816

4) 856

5) 925

7) 791

6) 797

8) 953

7) 899

5)869

## Lesson 6 Problem Solving

Solve each problem.

_	±			
1.	A rocket used 945 kg of fuel in 9 s during liftoff. The same amount of fuel was used each second. How many kilograms of fuel were used each second?	1.		
	kg were used each second.			
2.	A team for a relay race consists of four members who run the same distance. How far would each member run in an 800-m relay?	2.	3.	
	Each team member would run m.			
3.	There are 435 folding chairs in all. How many rows of nine chairs each can be formed? How many chairs will be left over?			
	rows can be formed.			
	chairs will be left over.			
4.	Eight boxes of freight have a mass of 920 kg. Each box holds the same amount of freight. What is the mass of each box?	4.	5.	
	Each box has a mass of kg.			
5.	A person's weight on Earth is six times more than on the moon. How much would a person who weighs 800 newtons (N) on Earth weigh on the moon?			
	The person would weigh N.			
6.	There are 627 items to be packed. The items are to be packed six to a box. How many boxes can be filled? How many items will be left over?	6.	7.	
	boxes will be filled.			
	items will be left over.			
7.	The mass of four players on a team is 292 kg. Suppose each player has the same mass. What is the mass of each player?			
	Each player's mass would be kg.			

## **CHAPTER 9 PRACTICE TEST**

# Division (2- and 3-digit by 1-digit)

Divide.

a

b

c

d

e

## CHAPTER 10 PRETEST

Division (4-digit by 1-digit)

Divide.

1.

a

b

c

d

