Name:

# Rising Loth Grade

## Answers:

#### Chapter 1 .....

#### Practice 1-1

In the number 9,513,607,482, write the digit in each place. Then give its value.

- 1a. thousands
- b. tens
- c. millions
- d. ten millions
- e. billions

Write the number in standard form.

- 2. six billion, twelve million, ninety-eight
- **3.** 9,000,000 + 70,000 + 6000 + 70 + 3
- 4. seventy-six and fourteen thousandths

Compare. Write <, =, or >...

- **5a.** 326.49 ? 326.94
- **b.** 0.2 <u>?</u> 0.20
- **6a.** 247,913 ? 247,193
- **b.** 7.05 ? 7.5

Round each number to the place of the underlined digit.

- **7a**. 7,<u>2</u>80,961
- **b.** \$967.35
- **c.** 6.1<u>4</u>3

#### Practice 1-2

Find the missing number.

- 1a.  $7 + 6 = \square + 7$
- $\mathbf{b} \cdot 9 = \square + 9$
- **2a.**  $(4+5)+8=4+(\square+8)$
- **b.**  $\Box 5 = 0$

Add or subtract.

- **3a.** 34,729 + 29,886
- 48,924 + 9,789
- **c.** \$180.77 + 99.65

- 4a. 6000 - 2534
- **b.** 9103 894

b.

**c.** \$447.03 - 195.80

**5a.** 125,704 306,199

+511,111

- 756,183 19,975 + 103,078
- **c.** \$375.89 46.50 + 97.28

- 16
- 1c
- 1e 2
- 34
- 5a 6a
- 7a
- 7b 7c
- la
- 2a
- 3a
- Ja
- 46
- 2

1 b 2 b

5b

60

- .ZD
- 3b
  - 9

3c

HC

50

5b

#### Practice 2-2

#### Multiply.

1a. 6 × 42,003

**b** 37 × 7018

**2a.**  $473 \times 3219$ 

**b.**  $78 \times $40.98$ 

3a. 945 × \$30.88

**b.**  $500 \times 7873$ 

Use rounding to estimate. Then multiply.

4a	\$11.82
7	× 647

**c.** \$90.91 × 356

**b.** 6108 × 978 3315 × 462

b. 2056 × 943 . 7902 × 574

#### Find the product.

**b.** 3946 × 700

\$34.77 × 300

#### Find the product.

**8a.**  $n \times 376$  when n = 129

**b.**  $917 \times n$  when n = 705

#### Problem Solving

- 9. At a sale, Leslie sold 2000 stickers for \$0.25 each. How much money did she collect?
- 10. A ticket agent sold 458 tickets at \$16.75 each. How much money did she collect?
- 11. The factors are 3905 and 748. Find the product.
- 12. Marty's heart beats 72 times in one minute. At this rate, how many times will Marty's heart beat in an hour?
- 13. What is the total cost of 394 hats that cost \$7.49 each?

#### Answers

la

16

2a

2b

3a

3b

4a

46

4C

5a

5b

5c

6a

66

6 C

7a 7b

70

8a

86

q

10

11

12

13

#### Practice 3-2

Divide and check.

Write whether each number is divisible by 2, 3, 4, 5, 6, 9, and/or 10.

Compute. Use the order of operations.

**8a.** 
$$52 + 6 \times 7 \div 3$$
 **b.**  $12 - 8 \div 4 + (7 - 3) \times 5$ 

**9a.** 
$$8 \times 3 - 21 \div 7$$
 **b.**  $(3 \times 9) - 8 + (48 \div 6)$ 

#### Problem Solving

- 10. Ms. Cooper has 182 markers. If she has 14 students in her art club, what is the greatest number of markers each student can have?
- 11. Fifty-two ticket agents sold 16,640 tickets. If each agent sold the same number of tickets, how many tickets did each sell?
- 12. Elena has 1372 stamps. She has 96 pages in her stamp album. How many stamps can go on each page? How many stamps will be left over?
- 13. Jed consumed 2680 calories yesterday. If he ate an equal number of calories in 3 meals, estimate the number of calories per meal.
- 14. Estimate to compare the quotient of 9158 divided by 38 with the quotient of 10,148 divided by 43.
- 15. How many quarters are in \$70.75?

## Answers

la.

Ib.

C.

2a.

2b.

2C.

3a.

3b.

3C,

4a.

46.

5a.

5b

loa. lob. 7ab 7c 8a 8 9 a

96.

12.

13.

14

15.

#### Practice 4-1

Write whether each is a prime or composite number.

**b.** 121

Find the missing term.

**2a.** 
$$\frac{2}{5} = \frac{n}{10}$$
 **b.**  $\frac{6}{7} = \frac{30}{n}$ 

**b.** 
$$\frac{6}{7} = \frac{30}{0}$$

**3a.** 
$$\frac{10}{13} = \frac{30}{?} = \frac{?}{78}$$

**3a.** 
$$\frac{10}{13} = \frac{30}{?} = \frac{?}{78}$$
 **b.**  $\frac{3}{4} = \frac{?}{24} = \frac{54}{?}$ 

Find the greatest common factor (GCF) for each set of numbers.

4a. 6 and 12

**b.** 8, 12, and 32

Write each fraction in lowest terms.

5a. 
$$\frac{15}{27}$$

b. 
$$\frac{24}{36}$$

c. 
$$\frac{35}{49}$$

6a. 
$$\frac{18}{48}$$
 b.  $\frac{20}{28}$  c.  $\frac{49}{63}$ 

**b.** 
$$\frac{20}{28}$$

Find the least common denominator (LCD) of each set of fractions.

8a. 
$$\frac{3}{5}$$
,  $\frac{2}{3}$ 

**b.** 
$$\frac{1}{6}$$
,  $\frac{3}{4}$ , and  $\frac{5}{8}$ 

#### Problem Solving

- 9. Use a factor tree to find the prime factorization of 28.
- 10. Mario has seen 5 of the 8 films at the multiplex. What fractional part of the films has he not yet seen?
- 11. Liz painted  $\frac{3}{12}$  of her design blue and  $\frac{2}{8}$  of it red. Did she paint the same amount in each color? Explain your answer.
- **12.** Write  $\frac{4}{5}$  as an equivalent fraction with a denominator of 20.
- 13. Seven tenths is equivalent to how many fortieths?

Answe	rs	
1a	16	C
2a	26	
3a	3b	
Ha	46	

10 12 13

86

#### Practice 6-1

Rename each as a fraction.

1a. 
$$3\frac{1}{4}$$

**b.** 
$$7\frac{2}{5}$$

**c.** 
$$6\frac{9}{10}$$

Write the reciprocal of each number.

**b.** 
$$3\frac{1}{2}$$

**c.** 
$$2\frac{1}{4}$$

**4a.** 
$$\frac{3}{4} \times \frac{7}{10}$$
 **b.**  $\frac{5}{8} \times \frac{3}{4}$ 

**b.** 
$$\frac{5}{8} \times \frac{3}{4}$$

c. 
$$\frac{1}{8} \times \frac{5}{9}$$

5a. 
$$4 \times \frac{5}{6}$$
 b.  $3 \times \frac{2}{3}$  c.  $\frac{4}{5} \times 9$ 

**b.** 
$$3 \times \frac{2}{3}$$

c. 
$$\frac{4}{5} \times$$

**6a.** 
$$\frac{1}{3} \times 3$$

6a. 
$$\frac{1}{3} \times 3$$
 b.  $\frac{6}{7} \times \frac{9}{8}$  c.  $8 \times \frac{3}{5}$ 

**c.** 
$$8 \times \frac{3}{5}$$

#### Divide.

8a. 
$$\frac{3}{4} \div 4$$

**b.** 
$$\frac{5}{8} \div 10$$

**8a.** 
$$\frac{3}{4} \div 4$$
 **b.**  $\frac{5}{8} \div 10$  **c.**  $\frac{3}{4} \div \frac{1}{2}$ 

9a. 
$$\frac{4}{9} \div \frac{3}{5}$$

**9a.** 
$$\frac{4}{9} \div \frac{3}{5}$$
 **b.**  $\frac{7}{15} \div \frac{3}{5}$  **c.**  $\frac{3}{4} \div \frac{5}{8}$ 

$$\mathbf{C.} \ \frac{3}{4} \div \frac{.5}{8}$$

**10a.** 
$$6 \div \frac{2}{3}$$
 **b.**  $5 \div \frac{10}{13}$  **c.**  $9 \div \frac{3}{7}$ 

**b.** 
$$5 \div \frac{10}{12}$$

**c.** 
$$9 \div \frac{3}{7}$$

#### Problem Solving

- **11.** In a class of 28 students,  $\frac{1}{7}$  wear glasses. How many students wear glasses?
- 12. Evan swam  $\frac{7}{8}$  mi. He broke up the swim into  $\frac{1}{12}$  -mi laps. How many laps did he swim?
- 13. James grew  $\frac{2}{3}$  in. each month for the last five months. How much has he grown?
- 14. Six friends share  $\frac{3}{4}$  lb of chocolates. How much chocolate does each get?

12

### Answers

la

lb

2a

26

Ца

46

5a

56

6a

66

80

86

80

9a

96

10a

10b

10c

#### CHAPTER 7.....

#### Practice 7-1

#### Problem Solving

Use the spinner to find the probability of each event.

, **1a.** *P* (even)

**b.** *P* (<10)

**2a.** P (5 or 10) **b.** P (8)

Use the circle graph to solve problems 3-4.

3. How many art projects are on display?

Paper

4. What fraction of the projects is:

a. drawings?

b. clay?

c. paintings .

## Drawings Mâche\* Puppets Paintings

**Art Projects** 

#### Practice 7-2

#### Problem Solving

Write a survey question that could have been used to obtain the data. Then complete the cumulative frequency table.

•	Trees Seen on Hike				
	Tree	Tally	Frequency.	Cumulative Frequency	
1.	Elm	## ## ##	?	?	
2.	Oak	## ## 11	?	?	
3.	Pine	?	13	?	
4.	Birch	?	10	?	

Answer 7-1

la

2a

7.00 - 2.00 (1.00		:1:4:1) (1:4:1)			
Class	5A	5B	5C	5D	5E
Number of Students	32	29	34	32	33

7. Find the range, mean, median, and mode of the class sizes.

6. Make a histogram to show the following data:

Heic	ght of	Seedl	ings ir	i cm
45	52	57	70	35
20	60	46	62	40
55	52	65	32	42

7. Diane's test scores for the first grading period are; 81, 82, 76, 95, 88, 83, 85, 84, 83, and 93. Draw a line plot for Diane's test scores. Then find the range and mode.

Answer 7-2 bottom

#### Hnswer 8-1

Ŋ

2a

Ю

Ù,

60

7

&

9

10

6C

#### Practice 8-1

Write the place of the underlined digit. Then write its value.

**1a.** 4<u>9</u>.6

**b.** 0.348

**c.** 12.6<u>7</u>2

Write each decimal in expanded form.

**2a.** 367.04

**b.** 70.163

**c.** 6.45

Estimate by both rounding and front-end estimation. Between what two numbers will the exact sum or difference be?

Estimate by rounding. Then add or subtract.

**b.** 
$$12 - 7.84$$

#### Problem Solving

- 7. Write the decimal that has seven thousandths, nine tenths, and six ones.
- 8. Marc rode his bike 4.35 km from home to the park. Then he rode along the park and back home again, a distance of 16.9 km. About how far did he ride?
- 9. What is 74.16 increased by 9.056?
- 10. Snow accumulation in March was 1.26 in., 3.75 in., and 2.049 in. Find the total snowfall in March.
- 11. A board is 36.37 cm long. If Richard cuts off 9.5 cm from it, how much of the board is left?
- 12. Janis spent \$7.99 on invitations, \$3.79 on balloons, and \$4.75 on streamers for a party. How much change did she get back from a \$20 bill?
- 13. Eleni measured two books. One was 22 mm thick. The other was 18.25 mm thick. How much thicker was the first book?

#### Chapter 9 .....

#### Practice 9-1

Find the missing number.

**1a.** 
$$n \times 3.7 = 370$$

**b.** 
$$1000 \times n = 324$$

**2a.** 
$$42.6 \div n = 4.26$$

**b.** 
$$n \div 1000 = 0.007$$

Multiply.

**3a.** 
$$7 \times 0.65$$

**b.** 
$$2.7.\times0.8$$

**c.** 
$$0.16 \times 0.9$$

**4a.** 
$$3.2 \times 0.7$$

**b.** 
$$0.63 \times 0.3$$

**c.** 
$$7 \times 0.32$$

**5a.** 
$$0.6 \times 3.74$$

**b.** 
$$4.3 \times 6.92$$

$$c.0.08 \times 11.5$$

Divide and check.

**b.** 
$$0.3 \div 6$$

**b.** 
$$5.39 \div 5$$

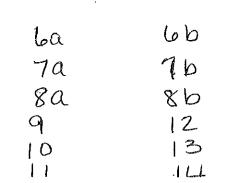
**b.** 
$$0.92 \div 4$$

**c.** 
$$0.744 \div 6$$

#### Problem Solving

- 9. Estimate the product of 2.287 and 6.9. Is the actual product greater or less than the estimated product?
- **10.** Is the estimated product of 13.608 and 0.62 greater or less than the exact product?
- 11. Estimate the quotient of 47.32 and 6 using compatible numbers.
- The school year has 180 days. If 0.05 of them are missed due to bad weather, how many days are missed?
- 13. Burritos are \$2.79 each. How much do 100 burritos cost?
- **14.** Evan spent \$74.33 for 3 video games. Estimate the cost of each game.
- Liam picked 64.3 pounds of fruit. Three tenths of the fruit were pears. How many pounds of pears did Liam pick?

# Answer 9-1 1a 1b 2a 3b 3a 4a 5a



#### Practice 10-1

Classify each angle.





Are the lines perpendicular? Write *Yes* or *No*. Use a protractor to check your answers.







3.

Name each polygon.





Classify each quadrilateral.

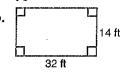




#### Practice 10-2

Find the perimeter of each polygon.





Find the circumference of each circle.

2a.





Is the dotted line a line of symmetry?

3а.





4a.



#### Answers

1a

16

2a

2b

3a

3b

3C

Ha

46

5a

5k

6a

60

la

16

20

26

3a

36

40

46

Add or subtract.

#### Practice 11-1

Write the letter of the best estimate.

1. A bed might be 76 ? long.

a. ft

**b.** yd

c. in.

2. A brick might weigh 3 \_? .

a. lb

**b.** oz

c. T

3. A coffee pot might hold 2 ?.

a. gal

**b.** pt

c. qt

4. The temperature during a snow storm might be ?.

**a.** 20°F **b.** 40°F

c. 60°F

Compare. Write <, =, or >.

**b.** 250 min ? 4 h

6a. 4 gal ? 20 qt

**b.** 5 yd <u>?</u> 180 in.

Use the graph.

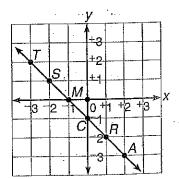
10. Name the point for:

a. (+2, -3)

**b.** (+1, -2)

**c.** (-1, 0)

**d.** (-3, +2)



Answers

5a 5b

6a

66 7a

7b

8a

86

9a

5a 5b 6a 60

10a