



## MODULE 5

# Dividing RealLife Numbers

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## ANSWER KEY

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Canada

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**Part 1: The Meaning of Division**  
**Practice Your Skills**

**Exercise 1A**  
**Complete.**

1. How many groups of threes are in 12? \_\_\_\_\_
2. How many groups of fives are in 20? \_\_\_\_\_
3. How many groups of twos are in 16? \_\_\_\_\_
4. How many groups of fours are in 24? \_\_\_\_\_

**Exercise 1B**

**Complete each equation, using the same number in each blank. Then write the number of times you subtracted each number. Write the division fact.**

		Number of Subtractions	Division Fact
5.	$6 - 3 - 3 = 0$	2	$6 \div 3 = 2$
6.	$10 - \underline{\hspace{1cm}} - \underline{\hspace{1cm}} - \underline{\hspace{1cm}} - \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = 0$		
7.	$14 - \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = 0$		
8.	$16 - \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = 0$		

**Use a calculator to find the quotient without using the  $\div$  key. Count the number of subtractions until you reach 0.**

9.  $28 \div 4 =$       10.  $32 \div 8 =$       11.  $18 \div 3 =$       12.  $21 \div 7 =$

**Exercise 2A**  
Find the quotient.

1. ○ ○ ○ ○ ○ ○  
○ ○ ○ ○ ○ ○       $18 \div 3 =$   
○ ○ ○ ○ ○ ○

2. ◇ ◇ ◇ ◇ ◇ ◇ ◇  
◇ ◇ ◇ ◇ ◇ ◇ ◇       $21 \div 3 =$   
◇ ◇ ◇ ◇ ◇ ◇ ◇

**Exercise 2B**  
Complete the division tables.

	÷	2		÷	6		÷	5		÷	8
3.	4		11.	6		19.	10		27.	8	
4.	6		12.	12		20.	15		28.	16	
5.	8		13.	18		21.	20		29.	24	
6.	10		14.	24		22.	25		30.	32	
7.	12		15.	30		23.	30		31.	40	
8.	14		16.	36		24.	35		32.	48	
9.	16		17.	42		25.	40		33.	56	
10.	18		18.	48		26.	45		34.	64	

### Exercise 3A

Complete each fact family.

1. <b>6, 7, 42</b>	2. <b>27, 3, 9</b>	3. <b>6, 5, 30</b>
$6 \times 7 = \underline{\hspace{2cm}}$	$3 \times \underline{\hspace{2cm}} = 27$	$\underline{\hspace{2cm}} \times 6 = 30$
$7 \times 6 = \underline{\hspace{2cm}}$	$9 \times 3 = \underline{\hspace{2cm}}$	$6 \times 5 = \underline{\hspace{2cm}}$
$42 \div 7 = \underline{\hspace{2cm}}$	$\underline{\hspace{2cm}} \div 3 = 9$	$\underline{\hspace{2cm}} \div 5 = 6$
$42 \div 6 = \underline{\hspace{2cm}}$	$27 \div 9 = \underline{\hspace{2cm}}$	$30 \div \underline{\hspace{2cm}} = 5$
4. <b>6, 2, 12</b>	5. <b>4, 9, 3</b>	6. <b>4, 3, 12</b>
$\underline{\hspace{2cm}} \times 6 = 12$	$4 \times \underline{\hspace{2cm}} = 36$	$4 \times 3 = \underline{\hspace{2cm}}$
$6 \times 2 = \underline{\hspace{2cm}}$	$\underline{\hspace{2cm}} \times 4 = 36$	$3 \times \underline{\hspace{2cm}} = 12$
$12 \div 6 = \underline{\hspace{2cm}}$	$\underline{\hspace{2cm}} \div 9 = 4$	$12 \div 4 = \underline{\hspace{2cm}}$
$\underline{\hspace{2cm}} \div 2 = 6$	$36 \div \underline{\hspace{2cm}} = 9$	$12 \div \underline{\hspace{2cm}} = 4$
7. <b>4, 16</b>	8. <b>8, 64</b>	9. <b>7, 49</b>
$4 \times \underline{\hspace{2cm}} = 16$	$\underline{\hspace{2cm}} \times 8 = 64$	$7 \times 7 = \underline{\hspace{2cm}}$
$16 \div \underline{\hspace{2cm}} = 4$	$\underline{\hspace{2cm}} \div 8 = 8$	$49 \div \underline{\hspace{2cm}} = 7$

### Exercise 3B

Write the fact family for each set of numbers.

10. 7, 1, 7                     ;                     ;                     ;                     

11. 5, 7, 35                     ;                     ;                     ;                     

12. 3, 6, 18                     ;                     ;                     ;

## RealLife Math

### Exercise 4A

How would you solve the problem?

Circle or highlight add, subtract, multiply, or divide. Then solve the problem.

1. The cruise director worked 12 hours a day for 4 days. How many hours did she work in all?

add   subtract   multiply   divide

2. The crew loaded 6 boxes of napkins aboard the ship. There are 246 napkins. There are an equal amount of napkins in each box. How many napkins are in each box?

add   subtract   multiply   divide

3. There are 39 people on the upper deck tanning. There are 46 people on the lower deck having lunch. How many people are there in all?

add   subtract   multiply   divide

4. Maggie spends \$39.58 at the souvenir shop. She gives the clerk \$50.00. How much change does she receive?

add   subtract   multiply   divide

5. There are 125 members of the crew and 659 passengers. How many more passengers are there than crew members?

add   subtract   multiply   divide

6. The ship's captain invites 23 people to dine at his table each night of the cruise. The cruise lasts for 4 days. How many people were invited to dine at the captain's table?

add   subtract   multiply   divide

7. A carton of pop has six cases in it. There are 12 cans of pop in each case. How many cans are there in the carton?

add   subtract   multiply   divide

8. Jack loaded 168 boxes onto four different trucks. Each truck holds the same number of boxes. How many boxes are on each truck?

add   subtract   multiply   divide

9. Maria bought 12 metres of fabric to make costumes for the school play. Each costume takes 2 metres of fabric. How many costumes can she make?

add   subtract   multiply   divide

10. Mike owes \$85 to the gas company. He owes \$75 to the cell phone company. He owes \$225 to the electric company. How much does he owe altogether?

add   subtract   multiply   divide

11. Maria earned \$30,642 last year. She spent \$27,499 on rent, food, taxes, transportation, and other living expenses. How much money did she have left over?

add   subtract   multiply   divide

## Exercise 5A

Divide and check.

1.

$$\begin{array}{r} \underline{\phantom{00}} \\ 2 \overline{)45} \end{array}$$

2.

$$\begin{array}{r} \underline{\phantom{00}} \\ 3 \overline{)64} \end{array}$$

3.

$$\begin{array}{r} \underline{\phantom{00}} \\ 4 \overline{)46} \end{array}$$

4.

$$\begin{array}{r} \underline{\phantom{00}} \\ 5 \overline{)57} \end{array}$$

5.

$$\begin{array}{r} \underline{\phantom{00}} \\ 3 \overline{)94} \end{array}$$

6.

$$\begin{array}{r} \underline{\phantom{00}} \\ 2 \overline{)67} \end{array}$$

7.

$$\begin{array}{r} \underline{\phantom{00}} \\ 8 \overline{)89} \end{array}$$

8.

$$\begin{array}{r} \underline{\phantom{00}} \\ 5 \overline{)59} \end{array}$$

9.

$$\begin{array}{r} \underline{\phantom{00}} \\ 5 \overline{)62} \end{array}$$

10.

$$\begin{array}{r} \underline{\phantom{00}} \\ 7 \overline{)82} \end{array}$$

11.

$$\begin{array}{r} \underline{\phantom{00}} \\ 4 \overline{)61} \end{array}$$

12.

$$\begin{array}{r} \underline{\phantom{00}} \\ 2 \overline{)54} \end{array}$$

13.

$$\begin{array}{r} \underline{\phantom{00}} \\ 5 \overline{)56} \end{array}$$

14.

$$\begin{array}{r} \underline{\phantom{00}} \\ 6 \overline{)96} \end{array}$$

15.

$$\begin{array}{r} \underline{\phantom{00}} \\ 3 \overline{)74} \end{array}$$

16.

$$\begin{array}{r} \underline{\phantom{00}} \\ 2 \overline{)58} \end{array}$$

## RealLife Math

Solve.

17. There are 25 new file cabinets to be divided equally among 2 departments. How many new file cabinets will each department get? How many will be left over?

**Exercise 6A**  
**Divide.**

1. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 3 \overline{)253} \end{array}$$

2. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 6 \overline{)436} \end{array}$$

3. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5 \overline{)357} \end{array}$$

4. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 2 \overline{)327} \end{array}$$

5. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4 \overline{)173} \end{array}$$

6. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 7 \overline{)568} \end{array}$$

7. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 8 \overline{)489} \end{array}$$

8. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4 \overline{)207} \end{array}$$

9. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5 \overline{)655} \end{array}$$

10. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4 \overline{)576} \end{array}$$

11. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4 \overline{)776} \end{array}$$

12. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 6 \overline{)828} \end{array}$$

13. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 7 \overline{)861} \end{array}$$

14. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 8 \overline{)968} \end{array}$$

15. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 6 \overline{)984} \end{array}$$

16. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4 \overline{)840} \end{array}$$



## **RealLife Math**

### **Exercise 36B**

**Solve.**

17. Robin is collecting aluminum cans for recycling. She has 336 cans. She puts an equal number of cans in 3 bags. How many cans are in each bag?

18. Olivia travels 776 kilometres in 4 days. She travels the same number of kilometres each day. How many kilometres does Olivia travel each day?

19. Dave makes \$42,312 per year. He gets paid monthly. How much money does he make each month? (There are 12 months in a year).

20. Ed is driving 80 kilometres per hour. How long will it take him to drive 400 kilometres?

21. Inez just received a delivery of 6,244 litres of gas at her service station. There is a shortage of gas and she needs to ration how much she can sell until the next delivery. She wants to make it last for the whole week (7 days). How many litres of gas can she sell each day to make sure the supply lasts for the whole week?

## Exercise 7A

Divide.

1.

$$\begin{array}{r} \underline{\phantom{00}} \\ 8 \overline{)832} \end{array}$$

2.

$$\begin{array}{r} \underline{\phantom{00}} \\ 5 \overline{)530} \end{array}$$

3.

$$\begin{array}{r} \underline{\phantom{00}} \\ 3 \overline{)906} \end{array}$$

4.

$$\begin{array}{r} \underline{\phantom{00}} \\ 7 \overline{)756} \end{array}$$

5.

$$\begin{array}{r} \underline{\phantom{00}} \\ 2 \overline{)616} \end{array}$$

6.

$$\begin{array}{r} \underline{\phantom{00}} \\ 2 \overline{)812} \end{array}$$

7.

$$\begin{array}{r} \underline{\phantom{00}} \\ 5 \overline{)510} \end{array}$$

8.

$$\begin{array}{r} \underline{\phantom{00}} \\ 4 \overline{)824} \end{array}$$

9.

$$\begin{array}{r} \underline{\phantom{00}} \\ 7 \overline{)721} \end{array}$$

10.

$$\begin{array}{r} \underline{\phantom{00}} \\ 3 \overline{)624} \end{array}$$

11.

$$\begin{array}{r} \underline{\phantom{00}} \\ 2 \overline{)418} \end{array}$$

12.

$$\begin{array}{r} \underline{\phantom{00}} \\ 2 \overline{)802} \end{array}$$

13.

$$\begin{array}{r} \underline{\phantom{00}} \\ 4 \overline{)806} \end{array}$$

14.

$$\begin{array}{r} \underline{\phantom{00}} \\ 3 \overline{)316} \end{array}$$

15.

$$\begin{array}{r} \underline{\phantom{00}} \\ 3 \overline{)922} \end{array}$$

16.

$$\begin{array}{r} \underline{\phantom{00}} \\ 5 \overline{)521} \end{array}$$

**Use mental math to divide. Write only the quotient.**

17.  $\overline{3)333}$

18.  $\overline{4)428}$

19.  $\overline{3)369}$

20.  $\overline{2)414}$

**Exercise 8A**  
**Divide.**

1. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 3)\$7.62 \end{array}$$

2. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4)\$10.16 \end{array}$$

3. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5)\$17.95 \end{array}$$

4. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 2)\$8.20 \end{array}$$

5. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 7)\$15.54 \end{array}$$

6. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 3)\$3.81 \end{array}$$

7. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4)\$11.92 \end{array}$$

8. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 6)\$9.36 \end{array}$$

9. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5)\$7.50 \end{array}$$

10. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 6)\$15.90 \end{array}$$

11. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 7)\$7.56 \end{array}$$

12. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5)\$6.30 \end{array}$$

13. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4)\$18.36 \end{array}$$

14. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 6)\$12.48 \end{array}$$

15. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 3)\$15.63 \end{array}$$

16. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 2)\$6.12 \end{array}$$

**Estimate. Circle whether the quotient will be more than or less than \$3.00.**

17.  $\frac{\quad}{3)\$10.00}$

more less

18.  $\frac{\quad}{2)\$4.00}$

more less

19.  $\frac{\quad}{4)\$6.50}$

more less

20.  $\frac{\quad}{2)\$12.89}$

more less

21.  $\frac{\quad}{3)\$8.89}$

more less

22.  $\frac{\quad}{4)\$7.90}$

more less

### Exercise 9A

Use the graph below to answer the questions.



How many boxes of diapers were sold during this month?

1. January \_\_\_\_\_
2. February \_\_\_\_\_
3. March \_\_\_\_\_
4. April \_\_\_\_\_

5. May \_\_\_\_\_
6. June \_\_\_\_\_
7. July \_\_\_\_\_

8. How many more boxes were sold during June than during January?

9. How many boxes of diapers were sold during the first three months of the year?

10. During which two months did the sales remain the same?

## RealLife Math

### Module #5 TaskBased Activity: Calculating Bowling Averages

There are 10 frames in a game of bowling. The player who knocks down the most pins wins the game. A perfect score is 300. A player's average is calculated by adding the scores of each game and dividing the total by the number of games played.

*Example:* Lynette bowls 3 games. Her scores are 115, 129, and 140. What is her average?

115	<u>128</u>
129	3) 384
<u>+140</u>	<u>-3</u>
384	08
	<u>-6</u>
	24
	<u>-24</u>
	0

Lynette's average is 128.

**Find the average for each player.**

**Complete the chart.**

Player	Game 1	Game 2	Game 3	Average
Roy	169	145	130	
Rhonda	100	106	115	
Mickey	175	153	140	
Lisa	157	138	128	
Tracie	89	113	125	

## Module 5: Dividing Whole Numbers

### Review

1. How many groups of threes are in 24? \_\_\_\_\_
2. How many groups of fives are in 35? \_\_\_\_\_

### Divide.

3. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 8 \overline{)40} \end{array}$$
4. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5 \overline{)25} \end{array}$$
5. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 7 \overline{)7} \end{array}$$
6. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 2 \overline{)10} \end{array}$$
7. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 2 \overline{)48} \end{array}$$
8. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4 \overline{)26} \end{array}$$
9. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 7 \overline{)23} \end{array}$$
10. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 3 \overline{)56} \end{array}$$
11. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 7 \overline{)85} \end{array}$$
12. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5 \overline{)147} \end{array}$$
13. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 9 \overline{)265} \end{array}$$
14. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5 \overline{)755} \end{array}$$
15. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 2 \overline{)447} \end{array}$$
16. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5 \overline{)140} \end{array}$$
17. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 3 \overline{)612} \end{array}$$
18. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 3 \overline{)281} \end{array}$$
19. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 4 \overline{)\$6.00} \end{array}$$
20. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 5 \overline{)\$5.45} \end{array}$$
21. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 2 \overline{)\$16.84} \end{array}$$
22. 
$$\begin{array}{r} \underline{\hspace{1cm}} \\ 6 \overline{)\$6.48} \end{array}$$