







Mathematics 4 Microlearning Module

QUARTER 2 – Module 4
Dividing 2 to 4 digit Numbers by 1 and 2 digit
Numbers with and without Regrouping





REGION XII - DIVISION OF SULTAN KUDARAT

REPUTE OF SKIP

Mathematics 4

Microlearning Module (MLM)

Quarter 2 – Module 4: Dividing 2 -to 4- digit Numbers by 1 and 2- digit Numbers With and Without Regrouping

First Edition, 2024

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MICROLEARNING MODULE

Name:		Grade & Se	ec:	Score:	
Subject:	Mathematics 4	Quarter:	2	MLM No.: 4	
Teacher: _					
Competenc	cy: Divide two numbe	rs with and wi	ithout reg	grouping	
a. 3 to 4 digit numbers by 1 digit numbers					
	b. 2 to 3 digit	numbers by 2	2 digit nu	ımbers	
A. Look I	Back!				
1. Aleng earn in	solve each problem. W Nena's sari-sari store n 10 weeks? hat is asked in the pr	e earns P9 258	•	swer in the blank. ek. How much does it	
b. W	b. What are the given facts?				
c. What operation is to be used?					
d. W	hat is the correct ans	wer?			
e. Sh	now your solution.				

B. What's New?

Complete the table.

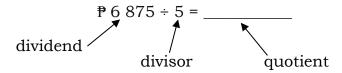
	Dividend	Divisor	Quotient
1	12	4	
2	25		5
3	18	2	
4		9	3
5	45		5

C. What Is It?

Look at this.

Mrs. Dela Rosa is a vendor. She earns P6 875 in 5 days. On average, how much does she earn in 5 days?

You will divide to find the answer.



The *dividend* is the number to be divided into equal groups.

The *divisor* is the number that divides the dividend.

The quotient is the answer in division.

The **remainder** is the number that is left when one number is divided by another number.

To divide, we follow these steps:

Step 1. Divide the thousands.

- $6 \div 5 = 1$
- Multiply: $1 \times 5 = 5$
- Subtract: 6 5 = 1
- Bring down 8 and regroup with 1 thousand to get 18 hundreds.

Step 2. Divide 28 hundreds.

$$\begin{array}{c|c}
1 & 3 \\
5 & 6 & 875 \\
\hline
-5 & \\
\hline
18 & \\
\underline{-15} & \leftarrow 3 \times 5 \\
37 & & \\
\end{array}$$

- $18 \div 5 = 3$
- Multiply: $3 \times 5 = 15$
- Subtract: 18 15 = 3
- Bring down 7 and regroup with 3 hundreds to get 37 tens.

Step 3. Divide 37 tens.

$$\begin{array}{c|c}
 & 1 & 37 \\
5 & 6 & 875 \\
\hline
 & -5 \\
\hline
 & 18 \\
 & -15 \\
\hline
 & 37 \\
 & -35 \\
\hline
 & 25 \\
\end{array}$$
 $\leftarrow 7 \times 5$

- $37 \div 5 = 7$
- Multiply: $7 \times 5 = 35$
- Subtract: 37 35 = 2
- Bring down 5 and regroup with 2 tens to get 25 tens.

Step 4. Divide 25 ones.

$$\begin{array}{r}
1 \ 375 \\
5 \ 6 \ 875 \\
-5 \\
\hline
18 \\
15 \\
\hline
37 \\
35 \\
\hline
25 \\
-25 \\
\hline
0
\end{array}$$

• $25 \div 5 = 5$

• Multiply: $7 \times 5 = 255$

• Subtract: 37 - 35 = 0

Complete answer: Mrs. Dela Rosa earns ₱1 375 a day.

To check if the answer is correct, we multiply what quotient you got (₱1375) by the divisor which is the number of days (5).

₱1 375 x 5 = ₱6 875 \leftarrow the product is the same as the dividend, therefore, our answer is correct.

Here is an example of division by two-digit divisor.

For easy computation, you can use a trial divisor by rounding off the divisor to the nearest tens. A trial divisor is a rounded form of an actual divisor. It is used to estimate the quotient easily.

Follow the steps below.

Step 1. There are not enough thousands.

Take 32 hundred. Use 20 as the trial divisor.

Write 1 above the hundreds digit.

Write 1 above the hundreds digit.

Multiply:
$$1 \times 22 = 22$$
Subtract: $32 - 22 = 10$

Bring down 6 and regroup with 10

• $32 \div 20 = 1$

hundreds to get 106 tens.

Step 2. Divide 106 tens.

- 106 ÷ 20 = 5 But 5 x 22 = 110. Since 110 is bigger than 106, adjust 5 to 4. Write 4 above the tens digit.
- Multiply: 4 x 22 = 88
- Subtract: 106 88 = 18
- Bring down 4 and regroup with 18 tens to get 184 ones.

Step 3. Divide184 ones.

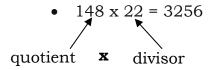
$$\begin{array}{c|c}
 & 14 \\
22 & 3264 \\
 & \underline{-22} \\
 & 106 \\
 & \underline{-88} \\
 & 184 \\
 & \underline{-176} \longrightarrow 8 \times 22 \\
 & & & \text{remainder}
\end{array}$$

- 184 ÷ 20 = 9 But 9 x 22 = 198. Since 198 is bigger than 184, adjust 9 to 8. Write 8 above the ones digit.
- Multiply: $8 \times 22 = 176$
- Subtract: 184 176 = 8, we call 8 as the remainder

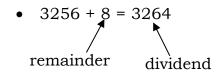
Hence, the answer to $3264 \div 22$ is 148 r. 8.

You can see that there is a number left over. This is the **remainder**. You write the remainder with an **r**., as what was done in the answer above.

To check if the answer is correct, multiply the quotient by the divisor.



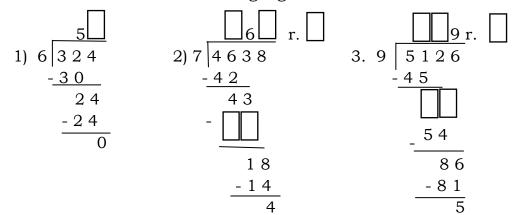
Then add the remainder.



We get a sum that is equal to the dividend. So, our answer above is correct.

D. Let's Try!

A. Fill in the boxes with the missing digits.



B. Round off the divisor, and write your answer in the line below.

E. Let's Evaluate

Directions. A. Solve the following. Write your answer on a separate sheet of paper and show your solution.

Math Challenge

Directions. Analyze and solve each word problem.

- 1. What number, when multiplied by 8 and divided by 3, gives 40?
- 2. What is the smallest whole number which when divided by 6 gives a remainder of 1 and when divided by 11 gives a remainder of 6?
- 3. There are 64 packs of candies in the bag. The packs of candies are equally divided among 8 children. How many packs each child will receive?

F. Reference

Creag, Herminia C. 2022. Real–Life Mathematics 4 Second Edition. Quezon City, Philippines: ABIVA Publishing House, Inc.

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Answer Key

Quarter 2, Module 4

A. Look Back

- 1. a. How much Aleng Nena earns in 10 weeks?
 - b. The given facts are: ₱ 9 258 Aleng Nena earns in a week and 10 weeks.
 - c. The operation to be used is multiplication.
 - d. Aleng Nena earned ₱ 9 258 in 10 weeks.
 - e. $\raise 9258 \times 10 = \raise 9258$

B. What's New?

- 1.3
- 2.5
- 3.9
- 4.27
- 5. 9

$$\begin{array}{r}
5 \overline{4} \\
A. 1. 6 \overline{324} \\
\underline{-30} \\
24 \\
\underline{-24} \\
0
\end{array}$$

$$\begin{array}{c|c}
6 & 2 \\
2.7 & 4638 \\
-42 \\
\hline
43 \\
-42 \\
\hline
18 \\
-14 \\
\hline
4
\end{array}$$

- B. 1. <u>30</u>
- 2. <u>30</u>
- 3. <u>10</u>
- 4<u>. 20</u>
- 5. <u>20</u>

E. Let's Evaluate

- 1. 214 r. 1
- 2.99
- 3. 321
- 4. 541 r.1
- 5. 1 215 r. 5

- 6. 328
- 7. 91 r. 7
- 8. 342
- 9. 72 r. 12
- 10. 524 r. 5