JANUARY
Makugihon

FEBRUARY
Mahigugmaon

MARCH
Matinabangon

APRIL
Matinahuron

MAY
Mahapsay og Malimpyo

JUNE
Maabtik og Musunod sa Insaktong Oras

JULY
Maantigo og Maabilidad

AUGUST
Maginhunahunaon para sa Uban

SEPTEMBER
Madaginoton

OCTOBER
Matinud-anon

NOVEMBER
Masaligan

DECEMBER
Maalampuon

Republic of the Philippines

Department of Education

Regional Office IX, Zamboanga Peninsula

2

Zest for Progress Zeal of Partnership

Mathematics

Quarter 3 - Module 3

Mental Division With Inverse Operations

Name of Learner: _____

Grade & Section: _____

Name of School: _____

What I Need to Know

LEARNING COMPETENCY

In this module, you will be able to:

* Divides mentally numbers by 2, 3, 4, 5 and 10 using appropriate strategies (multiplication table of 2, 3, 4, 5 and 10).
* Illustrates that multiplication and division are inverse operations

MELC Code: M2NS-IIIb-52.1 M2NS-IIIc-53

What I Know

Directions: Encircle the letter of the correct answer.

1.) What is the answer called in *DIVISION* ?(40 ÷ 2= 20)
A. Sum
B. Difference
C. Product
D. Quotient

2.) What do you call the number that is being divided? (12 ÷2=6)
A. dividend
B. divisor
C. minuend
D. subtrahend

3.) Which number used to divide another number? (15 ÷ 3 = 5)
A. dividend
B. divisor
C. minuend
D. subtrahend

What's In

Activity 1 "Fill Me Up"

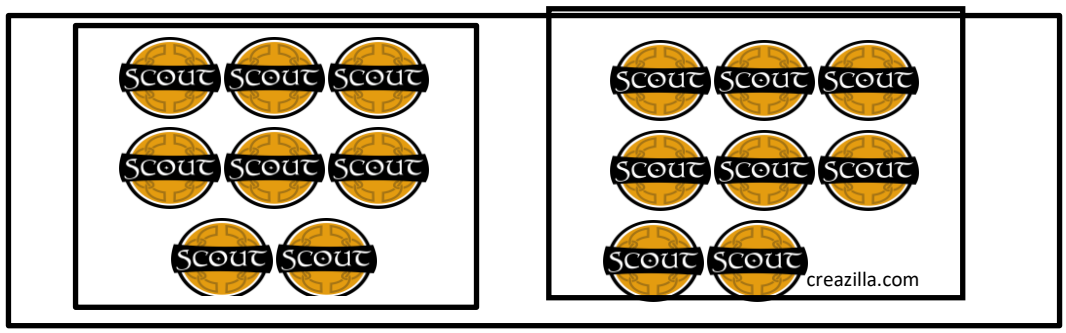
Directions: Fill in the missing number parts of each number sentence below.

₱ 20.00	₱ 20.00	₱ 20.00	₱20.00

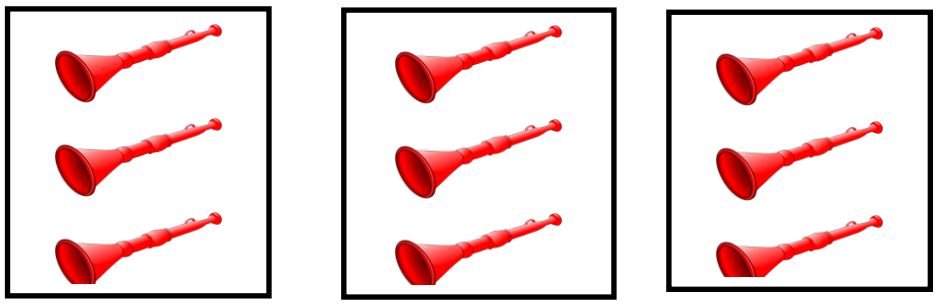
1.) ₱80 ÷ ____ = ₱20

¢ 10	¢ 10	¢ 10	¢ 10

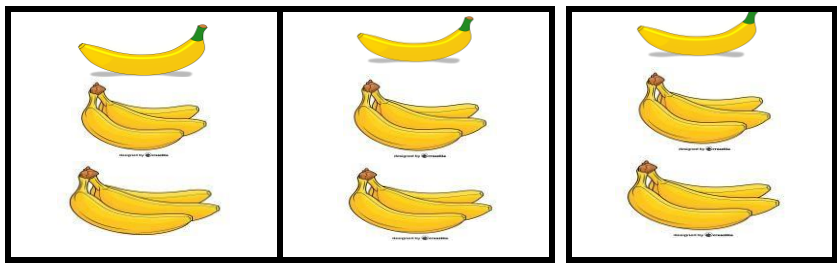
2.) ____ ÷ 4 = ¢10



3.) ____ ÷ 2 = 8



4.) 9 ÷ 3 = ____



5.) 21 ÷ ____ = 7

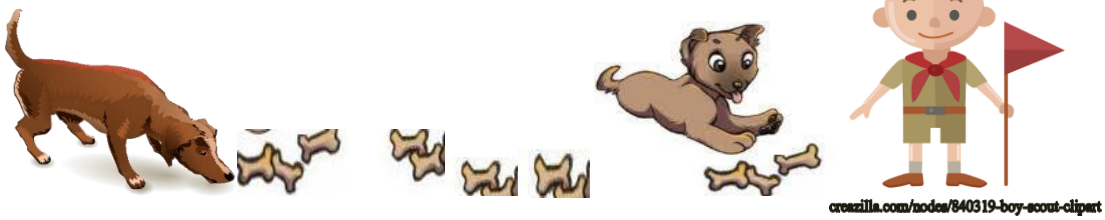
WHAT'S NEW

Dividing mentally numbers found in the multiplication tables of 2, 3, 4, 5, and 10,

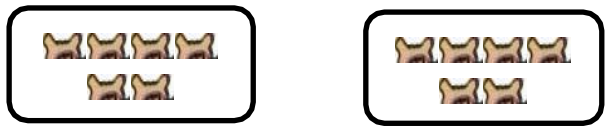
Example 1: (*Using division by formation of equal groups of objects.*)

Look at the pictures and take note of your observations.

Zion, an honest Boy Scout of Buayan Elementary School has two dogs. As a scout, he is responsible and loving to everyone and most especially to his pets. He loves feeding them with bones. If Zion has 12 bones and wanted to give them equally, how many bones each one will receive?



Let's help Zion solve his problem through dividing the total numbers of bones into two equal parts.



Dividend ÷ Divisor

12 ÷ **2** = **6** Quotient ← *Answer*

bones **dogs** **(six (6) bones)**

**Number being divided* **Used to divide another number*

Example 2 * Another way to get the answer is through *Skip Counting* by two's up to 12.

2	4	6	8	10	12
			2	2	2
1	**2**	**3**	**4**	**5**	**6**

How many groups of 2's do you see? **6**

The answer or quotient is **(6)** = six **(6)** bones each dog.

Example Using Repeated Addition in solving Division Problem

Mary is a generous grade 2 GSP member in her troop. She donated 36 trash cans to her Scoutmaster for the 9 troops to maintain cleanliness. How many trash cans each troop had received?

*What is asked? **How many trash cans each troop had received?**

* What are given? **36 trash cans for 9 troops**

* What operation to be used? **Division using Repeated Addition**

* Division sentence: **36 ÷ 9 = N**

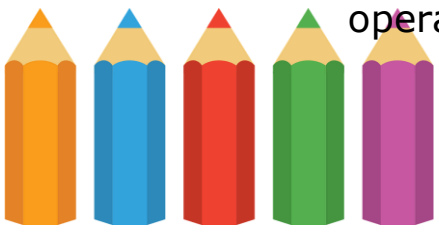
***Addition sentence: 9 + 9 + 9 + 9 = 36**

36÷9= N (Skip counting) 9		18	27	36
Repeated addition **9**	**+ 9**	**+ 9**	**+ 9**	
	18	27	36	

How many times 9 is being added? Answer is 4,

36÷9=**4 (quotient)**

Example 4 : (Multiplication and Division as inverse operation **)** Study the illustration:



Multiplication Sentence

2 X 5 = 10
5 X 2 = 10

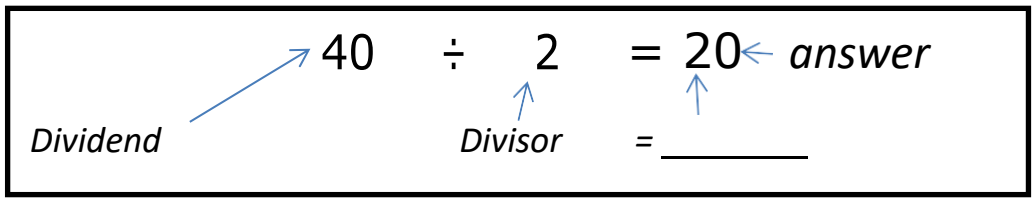
Division Sentence

10 ÷ 2 = 5
10 ÷ 5 = 2

Assessment

Multiple Choice Test

Directions: Choose the letter of the best answer. Write the chosen letter on the space provided for you.



____1. What is the answer called in *DIVISION*?

A. Quotient

B. Product

C. Sum

D. Difference

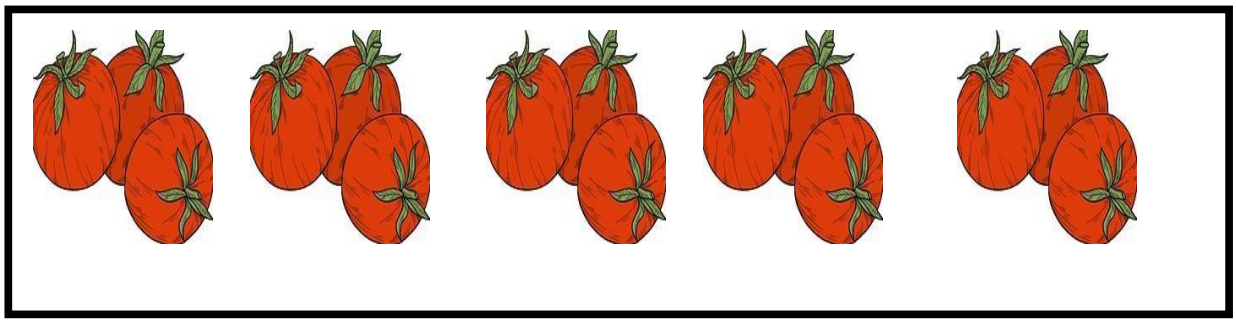
____2. What is the quotient of 40 ÷ 2 = ___?

A. 10

B. 20

C. 30

D. 40



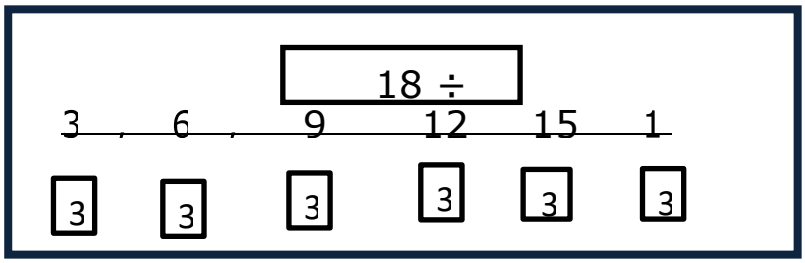
____3. What is the division sentence of <u>5 x 3</u>?

A. 15 ÷ 5 = 3

B. 15 ÷ 3 = 3

C. 15 ÷ 5 = 5

D. 15 ÷ 1 = 15



__4. What is the meaning of the skip counting used in getting the quotient?

A. 2's in 18

B. 3 's in 18

C. 4's in 18

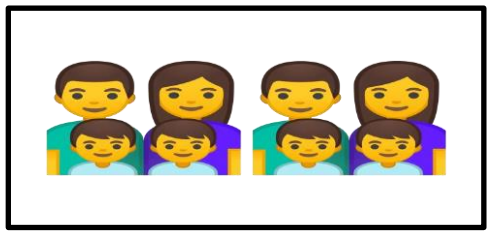
D. 5'S in 18

___ 5. What will you put in a blank in 8 ÷____= 2

A. 2

B.4

C. 6



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