Math 6 **Worksheet No: 8**

Name: _____ Section: _____

Date : _____ Score: _____

Multiplication and Division of Integers

Example: Hernan's hourly wage is P55.00.If he worked for 48 hours a week, how much will he receive?

Understand: What is asked? The pay he will receive for working for 48 hours.

What are the given facts? Hourly wage is P55.00 and he worked for 48 hours

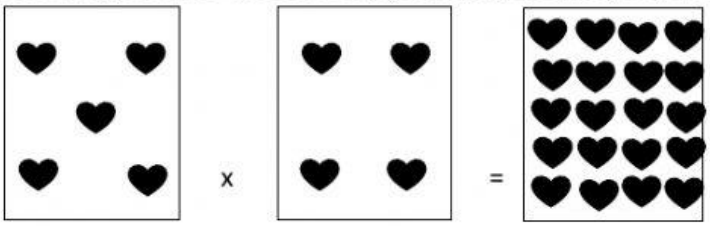
Plan : Mathematical sentence: P55.00 x 48 = N

Solve: 55.00 x 48 = P2 640, Hernan will received for working for 48 hours

Rules in Multiplication of Integers

1. If the integers have the same sign, multiply the integers, and affixed the positive sign

e.g a.

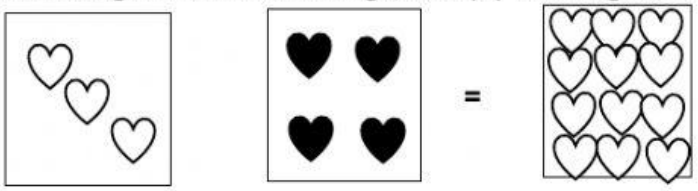


+ 5 x + 4 = +20

b. (-5) x (-3) = +15

2. If the integers have different sign, multiply the integers, and affixed the negative sign

a.



- 3 x + 4 = - 12

b. (+10) x (-12) = -120

Rules in Division of Integers

1. If the integers have the same sign, divide the integers, and affixed the positive sign

(+6) ÷ (+2) =

a.

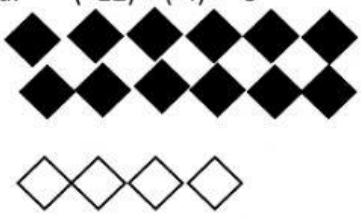


b. (-156) ÷ (-13) = 12

There are 3 black tiles in each group. (+6) ÷ (+2) = +3 or 3.

2: If the integers have different sign, divide the integers, and affixed the negative sign.

a. (+12) ÷ (-4) = -3



b. -25 | (+125)

-5

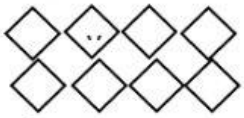
125

0

The quotient is -5. The sign is negative

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(-) since the divisor is negative



Activity 1

DIRECTION: Find the product

_____ 1. (-12) x (+15)
_____ 2. (-4) x (-13)
_____ 3. (+9) x (+ 13)
_____ 4. (-14) x (+2)
_____ 5. 5. You are Php300 in debt. If your debt is increased 2 times, how much is your debt?

Activity 2

DIRECTION : Write Yes if the answer in each problem is correct and No if not.

_____1. (+28) ÷ (-7) = - 4
_____2. (-81) ÷ (-9) = +9
_____3. (-27) ÷ (-9) = +3
_____4. 49 ÷ (-7) = 7
_____ 5. Alicia owes Php200 to each of her 4 friends. She owes her friends Php 800.

Activity 3

DIRECTION : Perform the indicated operation.

1. The product of +12 and +4 and is _____.
2. –40 when multiplied to –4 is equal to _____.
3. –25 x –4 is equal to _____.
4. –10 when multiplied to +4 is equal to _____.
5. Find the quotient of -312 and +24 _____.
6. What is the value of N in +72 ÷ +8 = N _____.
7. A 10-kilogram bag of flour is to be repacked into smaller bags weighing 3 kilograms each. If there are 3 bags of flour, how many smaller packs can you make?_____

Activity 4

DIRECTION: Read and Solve (Write the number sentence then answer)

1. A certain Sari-Sari store along Katuparan Street loses an average of P123 .00 a day over 12 days. How much money was lost over these 12 days?

2. The Division of Quezon City conducted a Boy Scout campimg at Montalban Rizal. The pupils noticed that the temperature fell to 36 degrees Celsius during the 6-hour stay time. How many degrees did the hourly temperature drop?

Quarter 2, Week 8 Competency: describes and interprets the basic operations on integers using materials such as algebra tiles, counters, chips, and cards._M6NS-IIh-155
: performs multiplication/division of integers with like signs.
: performs multiplication/division of integers with unlike signs
: solves routine and non routine problems involving addition/subtraction of integers using appropriate strategies and tools.

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