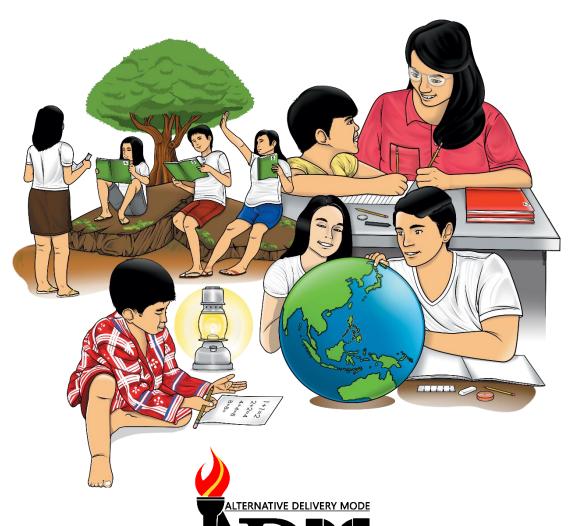




Mathematics

Quarter 1 - Module 3: Absolute Value and Operations On Integers



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Mathematics – Grade 7 Alternative Delivery Mode

Quarter 1 – Module 3: Absolute Value And Operations of Integers

First Edition, 2020

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Introductory Message

For the facilitator:

Welcome to the Mathematics 7 Alternative Delivery Mode (ADM) Module on Absolute Value and Operations on Integers!

This module was collaboratively designed, developed and reviewed by educators both from public and private institutions to assist you, the teacher or facilitator in helping the learners meet the standards set by the K to 12 Curriculum while overcoming their personal, social, and economic constraints in schooling.;

This learning resource hopes to engage the learners into guided and independent learning activities at their own pace and time. Furthermore, this also aims to help learners acquire the needed 21st century skills while taking into consideration their needs and circumstances.

In addition to the material in the main text, you will also see this box in the body of the module:



Notes to the Teacher

This contains helpful tips or strategies that will help you in guiding the learners.

As a facilitator you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Furthermore, you are expected to encourage and assist the learners as they do the tasks included in the module.

For the learner:

Welcome to the Mathematics 7 Alternative Delivery Mode (ADM) Module on Absolute Value and Operations on Integers!

The hand is one of the most symbolized part of the human body. It is often used to depict skill, action and purpose. Through our hands we may learn, create and accomplish. Hence, the hand in this learning resource signifies that you as a learner is capable and empowered to successfully achieve the relevant competencies and skills at your own pace and time. Your academic success lies in your own hands!

This module was designed to provide you with fun and meaningful opportunities for guided and independent learning at your own pace and time. You will be enabled to process the contents of the learning resource while being an active learner.

This module has the following parts and corresponding icons:



What I Need to Know

This will give you an idea of the skills or competencies you are expected to learn in the module.



What I Know

This part includes an activity that aims to check what you already know about the lesson to take. If you get all the answers correct (100%), you may decide to skip this module.



What's In

This is a brief drill or review to help you link the current lesson with the previous one.



What's New

In this portion, the new lesson will be introduced to you in various ways such as a story, a song, a poem, a problem opener, an activity or a situation.



What is It

This section provides a brief discussion of the lesson. This aims to help you discover and understand new concepts and skills.



What's More

This comprises activities for independent practice to solidify your understanding and skills of the topic. You may check the answers to the exercises using the Answer Key at the end of the module.



What I Have Learned

This includes questions or blank sentence/paragraph to be filled in to process what you learned from the lesson.



What I Can Do

This section provides an activity which will help you transfer your new knowledge or skill into real life situations or concerns.



Assessment

This is a task which aims to evaluate your level of mastery in achieving the learning competency.



Additional Activities

In this portion, another activity will be given to you to enrich your knowledge or skill of the lesson learned. This also tends retention of learned concepts.



Answer Key

This contains answers to all activities in the module.

At the end of this module you will also find:

References

This is a list of all sources used in developing this module.

The following are some reminders in using this module:

- 1. Use the module with care. Do not put unnecessary mark/s on any part of the module. Use a separate sheet of paper in answering the exercises.
- 2. Don't forget to answer *What I Know* before moving on to the other activities included in the module.
- 3. Read the instruction carefully before doing each task.
- 4. Observe honesty and integrity in doing the tasks and checking your answers.
- 5. Finish the task at hand before proceeding to the next.
- 6. Return this module to your teacher/facilitator once you are through with it.

If you encounter any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator. Always bear in mind that you are not alone.

We hope that through this material, you will experience meaningful learning and gain deep understanding of the relevant competencies. You can do it!



What I Need to Know

This module was designed and written with you in mind. It is here to help you master the absolute value and operations on integers. The scope of this module permits it to be used in many different learning situations. The language used recognizes the diverse vocabulary level of students. The lessons are arranged to follow the standard sequence of the course. But the order in which you read them can be changed to correspond with the textbook you are now using.

The module is divided into five lessons, namely:

- Lesson 1 Representing Absolute Value of a number on a number line
- Lesson 2 Addition of Integers
- Lesson 3 Subtraction of Integers
- Lesson 4 Multiplication of Integers
- Lesson 5 Division of Integers

After going through this module, you are expected to:

- 1. represent absolute value of a number on a number line;
- 2. find the sum of integers and solve problems involving addition of integers;
- 3. find the difference of integers and solve problems involving subtraction of integers;
- 4. find the product of integers and solve problems involving multiplication of integers;
- 5. find the quotient of two integers and solve problems involving division of integers.



What I Know

Choose the letter of the best answer. Write the chosen letter on a separate sheet of paper.

1. It repre	sents the distan	ce of a number on a	a numb	oer line.	
A.	Absolute Value			C. Rational N	Number
B.	Integers			D. Scientific	Notations
2. Which o	of the following r	epresents the absol	ute val	ue of 5?	
A.	-6 -5 -4 -3 -2 -1	0 1 2 3 4 5 6		C6 -5 -4 -3 -2	-1 0 1 2 3 4 5 6
B.	-6 -5 -4 -3 -2 -1 0	0 1 2 3 4 5 6		D. -6 -5 -4 -3 -2	-1 0 1 2 3 4 5 6
	the absolute val				
A.		B. 34	C. 0		D34 and 34
	the sum of -4 ar				
A. 2		B. 10	C10)	D24
	e sum of 21 and	-15.			
A. 6)	B. 36	C6		D36
6. What w	ill you get when	you combine -14, -9	9 and 3	35?	
A. 1		B. 58	C12	2	D58
7. Find the	e difference of -8	and -15.			
A. 7	,	B7	C13	}	D23
8. What is	the difference be	etween 20 and -9?			
A. 1	. 1	B. 29	C11	L	D29
9. Find the	e difference betw	reen a mountain tha	it has a	an altitude of	3486 feet and a
valley th	nat is 139 feet be	elow sea level.			
A. 3	3 265	B. 3 347	C. 3 4	37	D. 3 625
10. Find th	ne product of -5	and 9.			
Α. 4	4	B. 14	C. – 5		D 45
11. Perform	n the indicated o	operation: (10) (-2) (3) (-1)		
A	10	B16	C. 13		D. 60
12. To be o	qualified as an e	ncoder, one must b	e able t	to type at leas	t 45 words per
minute	e. How many wo	rds must be encode	d in 15	minutes in o	rder to qualify?
A. 6		B. 655			
13. What i	s the quotient -5				
A. 5	-	B. 40	C5		D60
14. Perform	n the indicated o	operation: -72 ÷ 9			
A. 8		B. 63	C8		D63
	ne quotient of -4				
A. 5	_	B. 32	C5		D32

Lesson Representing Absolute Value Of A Number On A Number Line



What's In

In your previous lesson, you learned that the subsets of real number can be represented using a number line wherein zero is the center of a number line. The numbers having the same distance from 0 on a number line but are in opposite directions are called opposites. Let's check your learnings!

A. Identify the opposite of the following numbers.



Notes to the Teacher

This lesson focuses on the relationship between absolute value and distance. Point out to students that the absolute value of a number as a measure of distance will always be positive or zero since it is simply a magnitude, a measure. Students should realize the importance of the absolute value of a number in context such as transportation, weather, statistics and others.



What's New

Some situations can represent integers. Complete the table by giving the appropriate term.

Situation	Negative	Zero	Positive
Time	Before		
Business		break even	
Elevation			above sea level
Game	loss		
saving account	withdrawal	no change	



What is It

The **absolute value** of a number is the distance of a number from zero. Remember distance itself is always positive. The absolute value of a number n is written as |n|.

• If x is a positive integer, then the absolute value of x is x.

In symbol: |x| = x, if x > 0

Example:

$$|7| = 7$$
 since 7 is a positive integer, then the absolute value of 7 is 7.

• If x is equal to zero, then the absolute value of x is x.

In symbol: |x| = x, if x = 0

Example:

$$|0| = 0$$
 \longrightarrow since 0 is equal to 0, then the absolute value of 0 is 0.

• If x is a negative integer, then the absolute value of x is the opposite of x. In symbol: |-x| = x, if x < 0

Example:

$$|-10| = 10$$
 since -10 is a negative integer, then its opposite integer is 10.

In writing the absolute value of a number, just write the numerical part.

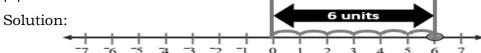
The absolute value of 5 is 5, in symbol |5| = 5

The absolute value of -5 is 5, in symbol |-5| = 5

Let's Illustrate!

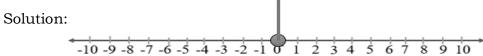
Represent the following absolute value of a number on a number line.

1. |6|



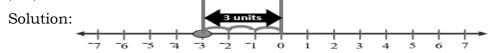
Since 6 is 6 units from zero, the absolute value 6 is 6. In symbol, |6| = 6.

2. |0|



The absolute value of 0 is 0. In symbol, |0| = 0

3. |−3|



Since -3 is 3 units from zero, the absolute value of -3 is 3. In symbol, |-3|=3

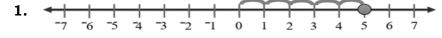


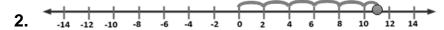
What's More

A. Represent the following value of a number on a number line.

- 1. |7| =
- 2. |10| =.
- 3. |12| =
- 4. |-6| =
- 5. |-8| =

B. Give the absolute value of the following number lines.













What I Have Learned

To sum it up, let us complete the statements. Choose your answer from the box that best completes each of the statements below.

		n	Absolute value	zero		
		positive	Dis	tance		
	The 1	L,	of a number is the 2	2	of a	number
from	3	Remen	ber distance itself is	always 4. _		The
absol	lute val	lue of a number n	is written as 5	·		
repre			Can Do ity where you can f a number on a numb		t you lea	arned about
_						
A. W		e absolute value the apple: A gain of a	nat represents the situ 45 m	aation. —	45 = 4	<u>5</u>
1.	A los	s of 5 lb.		_		
2.	350 f	t. below sea level		_		
3.	An el	evation of 1 050 ft	•			
4.	Php 2	2, 000 deposit in t	he bank			
5.	. A pr	ofit of Php 50.00		_		
B. S	olve th	e following probler	n involving absolute v	value.		
1.	Jacol	b's credit score is	190. What is the abso	lute		
	value	e of 490?		_		
2.	_	lute value of the n	ow sea level. What is t umber of feet he is ab			

Lesson

2

Addition of Integers



What's In

In the previous lesson you have learned that the absolute value of a number is the distance of a number from zero. Let's check your learning!

Give the absolute value of the following numbers.

1. |349| =

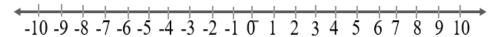
4. |-97| =

2. |245| =

5. |-183| =

3. |0| =

You also have learned that integer is a set of numbers consisting zero, the positive natural numbers and their additive inverses which is the negative numbers.





Notes to the Teacher

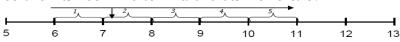
This lesson is a review and deepening of the concept of addition of integers. Keep in mind that the definitions for the operations on integers must retain the properties of the same operations on whole numbers or fractions. In this sense, the operations are merely extended to cover a bigger set of numbers. We present here two models for addition that have been used to represent addition of the whole numbers.



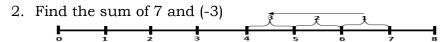
Study the following examples:

A. Addition Using Number Line

1. Use the number line to find the sum of 6 & 5.



On the number line, start with point 6 and count 5 units to the right. At what point on the number line does it stop? It stops at point 11; hence, 6 + 5 = 11.



On the number line, start from 7 and count 3 units going to the left since the sign of 3 is negative.

At what point on the number does it stop? It stops at point 4; hence, (7) + (-3) = 4.



What is It

Operations of integers can be performed using different ways. As to addition of integers, let's make use of signed tiles and the rules.

Addition of Integers Using Signed Tiles

Let represents +1; represents -1

Now, when we combine one with one , they will cancel each other.

However.

when we combine one with another they will appear as the when we combine one with another they will appear as the will appear as they will appear as the will

Let's Try!

1. Combine + + + + and + + + + +

Since the first 4 tiles are positive and the next 5 tiles are also positive.

2. Combine - - and - - -

Since the first 3 tiles are negative and the next 4 tiles are also negative. Therefore they will appear as

In symbol: (-3) + (-4) = -7

3. Combine + + + + + and - - -

Since the first 5 tiles are positive and the next 3 tiles are negative. Then the 3 positive tiles and 3 negative tiles will cancel each other.

Therefore the remaining will appear as + + In symbol: 5 + (-3) = 2

ADDITION OF INTEGERS USING THE RULES:

Rule 1: When the integers have like signs, add the numbers and copy the common sign.

Example:

Rule 2: When the integers have unlike signs, subtract the numbers and use the sign of the number with the greater absolute value.

Example:

Let's do more!

c.
$$-14 + 22 + (-16) + 8$$

= $-14 + (-16) + 22 + 8$ - Combine the numbers with like signs
= $-30 + 30$ - Subtract the numbers with unlike
signs.



What's More

Add the following integers.

$$1. (-5) + (-11) =$$

3. -4 + (-4) =

9.
$$(50) + (-13) + (-12) =$$

10. $(-100) + (48) + 49 =$

$$2. (6) + (-9) =$$

7.
$$(-9) + (-19) + (-6) =$$

$$4. 7 + (-6) =$$

8.
$$(-4) + (25) + (-15) =$$



What I Have Learned

To sum it up, let us complete the statements. Choose your answer from the box that best completes each of the statements below.

different	add	positive
subtract	zero	negative

- 1. When the signs are the same, _____ and keep the sign.
- 2. When the signs are ______, subtract and use the sign of the number with the greater absolute value.
- 3. If we add two same numbers with different signs then the answer is equal to

1	T1	- C +		:	:	: 4
4.	The sum	or rwo	negative	integers	1S A	integer
• •	TITE DUILI	01 0110	11084110	11100000	10 a	 1110000

5. The sum of two positive integers is a ______ integer.



What I Can Do

Solve the following problem.

- 1. Mrs. Reyes charged P3,752.00 worth of groceries on her credit card. Find her balance after she made a payment of P2,530.00.
- 2. In a game, Team Azcals lost 5 yards in one play but gained 7 yards in the next play. What was the actual yardage gained by the team?

Lesson

8

Subtraction of Integers



What's In

In your previous lesson, you have learned how to add integers. There are rules you need to follow.

- 1. When the signs are the same, ADD and keep the sign.
- 2. When the signs are different, SUBTRACT and use the sign of the number with the greater absolute value.

Make it a try!

Add the following integers:



Notes to the Teacher

This lesson is a continuation of lesson 2 in the sense that mastery of the law of signs in addition of integers makes subtraction easy for the learners. Emphasis must be given to how the law of signs in addition is connected to that of subtraction.



What's New

Exactly!

Fill the blanks with the correct number that will make it exact.



What is It

Now, let us start our discussion starting with the rules in subtracting integers.

Subtraction Rule

-To subtract two integers, add the opposite or additive inverse of the subtrahend to the minuend. That is, if \boldsymbol{a} and \boldsymbol{b} are any two integers, then a-b=a+(-b). Then, follow the rules for addition of integers.

- 1. Keep Change Change (KCC)
 - **K**eep the 1st integer the same
 - Change the subtraction sign to addition
 - Change the sign of the second integer
- 2. Follow the rules for addition
 - When the signs are the same (like sign), ADD and keep the sign.
 - When the signs are different (unlike sign), SUBTRACT and copy the sign of the number with the greater absolute value.

Recall:
tile represents +1
tile represents -1

Examples:

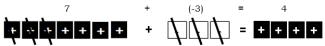
1. 7 - 3 = ____ Keep Change Change

7 + (-3)

+ + + + + + + + |

Follow rules for addition

(Since unlike sign, subtract the integers then copy the sign of the number with the greater absolute value.)



2. **4** - **5** = ____

Keep Change Change

4 + (-5)

+ + + + - - - -

Follow rules for addition

(Since unlike sign, subtract the integers then copy the sign of the number with the greater absolute value.)



3. $\mathbf{2} - (-\mathbf{4}) = \underline{}$

Keep Change Change



Follow rules for addition

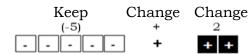
(Since like sign, add the integers then keep the sign

4. (-3) - (5) = ____

Follow rules for addition

(Since like sign, add the integers then keep the sign)

5. **(-5)** - **(-2)** = ____



Follow rules for addition

(Since unlike sign, subtract the integers then copy the sign of the larger number)

6. Find the difference in altitude between a mountain 3 900 feet high and a valley 785 feet below sea level.

Solution:

Land that is below sea level is considered to have negative altitude. Hence, the valley is said to have an altitude of -785 feet. The difference in altitudes between the mountain and the valley is found by subtracting -785 ft. from 3 900 ft.

The difference in altitude between a mountain and valley below sea level is 4 685 ft.



What's More

A. Subtract the following integers.

9.
$$(-21) - (-5) =$$

8.
$$(-10) - (12) =$$

B. Find the missing number in each subtraction sentence.



What I Have Learned

To sum it up, let us complete the statements. Choose your answer from the box that best completes each of the statements below.

different	keep	addition
greater	change	the same

Rules for Subtracting Integers

- ____the 1st integer the same
- 2. Change the subtraction sign to
- 3. _____ the sign of the second integer.
- 4. When the signs are ______, add and keep the sign.
- 5. When the signs are ______, subtract and copy the sign of the number with the _____ absolute value.



What I Can Do

Here is another activity that lets you apply what you learned about subtracting integers by doing the following operations.

Solve the following problems.

- 1. Maan deposited P53, 400.00 in her account and withdraw P19, 650.00 after a week. How much of her money was left in the bank?
- 2. If Pythagoras, the Greek mathematician, was born in 582 BCE and died on his birthday in 497 BCE, how old was he when he died?

Lesson

4

Multiplication of Integers



What's In

We will learn about the multiplicand and multiplier. The number to be multiplied is called the **multiplicand.** The number with which we multiply is called the **multiplier.** The numbers to be multiplied are called **factors.**

Example: Multiply 20 by 2 $20 \longrightarrow Multiplicand \supset$

 $\underline{x} \ \underline{2} \rightarrow Multiplier$

40 → Product

The result obtained is called **product.**



Notes to the Teacher

The repeated addition model for multiplication can be extended to multiplication of two integers in which one of the factors is positive. However, for products in which both factors are negative, repeated addition does not have any meaning. Hence multiplication of integers will be discussed in two parts: the first part looks into products with at least one positive factor, while the second studies the product of two negative integers.



What's New

Consider the given number patterns. Then copy and complete the multiplication table.

X	4	3	2	1	0	-1	-2	-3	-4
4	16	12	8	4	0	-4	-8	-12	-16
3	12	9	6	3	0	-3	-6	-9	
2	8	6	4	2	0				
1	4	3	2	1	0				
0									
-1						1	2	3	4
-2									
-3									

Express the multiplication rules, with (+) stands for a positive number, and (-) stands for a negative number, in the following cases.

- a. (+)(+)
- b. (-)(-)
- c. (-) (+)
- d. (+)(-)



What is It

We learned that with whole numbers, multiplication is repeated addition. Now, let us start our discussion on the rules in multiplying integers.

Rules in Multiplying Integers

1. When you multiply two numbers with the same sign, the product is **positive.**

$$(+)(+) = (+)$$
 $(-)(-) = (+)$

2. When you multiply two numbers with different signs, the product is **negative.**

$$(+)(-) = (-)$$
 $(-)(+) = (-)$

3. Any number multiply by 0 gives a product of 0.

$$(0)$$
 (any number) = 0

$$(any number)(0) = 0$$

The following examples illustrate further how integers are multiplied.

Example 1. Multiply (6) (9)

Solution: (6)(9) = 54

The product is positive because the sign of the factors are the same.

Example 2: Multiply (-7) (-6)

Solution: (-7)(-6) = 42

The product is positive because the sign of the factors are the same.

Example 3: Multiply (-8) (5)

Solution: (-8)(5) = -40

The product is negative because the sign of the factors are different.

Example 4. Multiply (5) (-2)

Solution: (5)(-2) = -10

The product is negative because the sign of the factors are different.

Example 5: Multiply (0) (10)

Solution: (0)(10) = 0

The product is zero because any number multiply by zero gives a product of zero.



What's More

A. Find the product of the following integers.

$$3. (5) (-30) =$$

$$5. (-12) (-8) =$$

$$2. -11(20) =$$

$$4. -8 (0) =$$

B. Write the missing factor on the blank to complete each sentence.

$$2. (-40) = -1 \bullet ____$$



What I Have Learned

Fill in the blank to make a true statement.

- 1. When you multiply two numbers with the same sign, the product is _____
- 2. When you multiply two numbers with _____ sign, the product is negative.
- 3. When you multiply any number by zero, the product is _____
- 4. An even number of negative factors will produce a product that is _____.
- 5. An odd number of negative factors will produce a product that is ______.



What I Can Do

Solve the following problems.

- Cheska has twenty P5 coins in her coin purse. If her niece took 5 of the coins, how much has been taken away?
- Jim reads 3 newspaper articles every day, and Jessica reads 5 times more 2. than Jim does. How many newspaper articles does Jessica read every day?

Lesson

Division of Integers

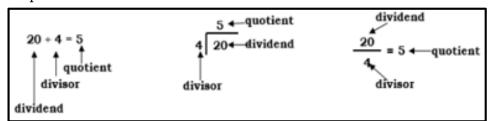


What's In

In this module, you will learn on how to divide integers. There are terms that are special to division that we should be familiar with.

- Quotient the answer when we divide
- Dividend the number being divided
- Divisor the number being divided into something

Example:





Notes to the Teacher

This is a short lesson because the sign rules for division of integers are the same as with the multiplication of integers. Division is to be understood as the reverse operation of multiplication, hence making the rules the same with respect to the sign of the quotient.



What's New

Answer the following questions:

- 1. What is $(51) \div (3)$?
- 2. What is $(-51) \div 3$?
- 3. What is $51 \div (-3)$?

- 4. What is $(-51) \div (-3)$?
- 5. What is $0 \div 51$?



What is It

We have learned that Subtraction is the inverse operation of Addition, In the same manner, Division is the inverse operation of Multiplication. Now, let us start our discussion on division of integers.

Rules in dividing integers

- 1. When two numbers with the same sign are divided, the quotient is always positive. $(+) \div (+) = +$ $(-) \div (-) = +$
- 2. When two numbers with different signs are divided, the quotient is always negative. $(+) \div (-) = (-) \div (+) = -$
- 3. The rules for dividing zero by a nonzero number and for division by zero still hold.

$$\frac{(0)}{(\text{nonzero number})} = 0$$
 $\frac{(\text{any number})}{(0)} = \text{undefined}$

Example 1: Find the quotient of $45 \div 5$.

Solution:

Since division is the inverse of multiplication, determine what number multiplied by (5) produces (45).

Hence (5) (9) = 45Therefore: $45 \div 5 = 9$

Example 2: Find the quotient of $(-51) \div (-3)$.

Solution:

Since division is the inverse of multiplication, determine what number multiplied by (-3) produces (-51).

If we ignore the signs for the meantime, we know that

$$(3)(17) = 51$$

We also know that in order to get a negative product, the factors must have different signs. Hence (-3) (17) = -51

Therefore: $(-51) \div (-3) = 17$

Example 3. What is (-57) ÷ 19?

Solution: $19 \times 3 = 57$ Hence $19 \times (-3) = -57$ Therefore: $(-57) \div 19 = -3$

Example 4: Show why $273 \div (-21) = -13$

Solution: $(-13) \times (-21) = 273$

Example 5: Tom played golf at an amusement park. His scores on the first five holes were -1, +1, -2, -1 and -2. What was his mean (average) scores for these holes?

Solution:

To find the mean, divide the total score by the number of holes.

$$\frac{-1+1+(-2)+(-1)+(-2)}{5} = \frac{-5}{5} = -1$$

Tom's mean score for the first five holes was -1.



What's More

A. Find each quotient.

1.
$$(63) \div 9 =$$

3.
$$(125) \div (-5) = 5$$
. $0 \div (50) =$

$$5. 0 \div (50) =$$

$$2. (-88) \div (-8) =$$

4.
$$(-144) \div (16) =$$

B. Write the missing number in each

$$1.\frac{42}{\Box} = -2$$

2.
$$\frac{\Box}{8} = -8$$

3.
$$\frac{\Box}{2} = 0$$

4.
$$\frac{-40}{\Box}$$
 = 8

write the missing number in each
$$1.\frac{42}{\Box} = -2$$
 $2.\frac{\Box}{8} = -8$ $3.\frac{\Box}{22} = 0$ $4.\frac{-40}{\Box} = 8$ $5.\frac{\Box}{-7} = 13$



What I Have Learned

Fill in the blank to make each statement true.

- 1. When to numbers with the same signs are divided, the quotient is always
- 2. The quotient of two integers with different signs is _____
- 3. If the quotient of A and B is negative and A is a negative integer then B is a _ integer.
- 4. If the quotient of A and B is negative and A is a positive integer then B is a __ integer.
- 5. If A is zero and B is any nonzero integer, then the quotient is _____.



What I Can Do

Solve the following problems:

- 1. Vergara's store earned P8750 a week. How much is her average earning in a day?
- 2. A father has 976 sq. meters lot, he has to divide it among his 4 children. What is the share of each child?

Assessment

Multiple Choice. Choose the letter of the best answer. Write the chosen letter on a separate sheet of paper.

1.	-	stance of a number		
	A. Absolute Value		C. Rational Number	
	B. Integers		D. Scientific Notation	ons
2.	Which of the followi	ing represents the al	osolute value of -8?	
	A10 -8 -6-4 2 0	 	C10 -8 -6-4 2	0 2 4 6 8 10
	B10-8-6-420		D10 -8 -6-4 2 (0 2 4 6 8 10
3.	What is the absolute			
	A56	B. 0	C. 56	D56 and 56
4.	Find the sum of -24		0.00	D 70
5	A22 What is the sum of -	B70	C. 22	D. 70
٥.	A82	B20	C. 20	D. 82
		_, _,		_, _,
6.	If a car has 3 gallon the tank?	s of gas in the tank	and you add 8 more	, how much is in
	A11	B. 5	C. 11	D. 24
7.	Find the difference o A123	of 82 and -41. B41	C. 41	D. 123
0				<i>D</i> . 120
0.	What is the difference			D 00
ο,	A92	B22	C. 22	D. 92
9.		_	and 8 inches is cut	on, now many
	inches of board do y		0.16	D 20
10	A16	B. 3	C. 16	D. 32
10.	Find the product of		0 7	D 60
	A63	B24	C7	D. 63
11.	. Perform the indica	- ` '	`	D 165
10	A165	B145	C. 145	D. 165
12.		-	o work every day. H	ow many total
		d from work in 5 day		5 100 H
	A100 miles	B4 miles	C. 4 miles	D. 100 miles
13.	Find the quotient of	, ,		
	A63	B8	C. 8	D. 81
14.	Perform the indicate	- , ,		
	A48	B13	C. 13	D. 48
15.	Oliver removed 56 n	narbles from his ma	rble box and put the	m into 8 equal
	groups. How many	marbles were in eac	h group?	
	A7	B64	C. 7	D. 64



I. (-12)÷(12)

Additional Activities

"Who is the father of Algebra?"

To find the answer, perform the indicated operation of the following and write the letter of the problems in the box corresponding to the given equation.

I.	-5+3	Z .	36 ÷ 3
M.	-25 ÷(-5)	A.	-6 + (-2)
A.	(12)(2)	R.	(-6)(12)
17	7 (4)	т	10 + / 10)

K.	7 - (-4)	L.	-10 + (-10)
w.	(-4)(-7)	H.	-3 - (-1)

-8	-20	11	-2	28	24	-72	-1	12	5	2

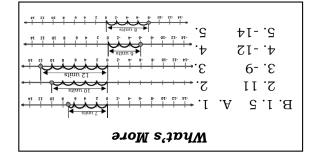


Answer Key

ABSOLUTE VALUE

7. D 10. A 11. C 11. C 12. A 12. A	1. A 2. C 3. B 4. C 5. A 6. A 7. A 8. A 8. A	81 .8 011 72 .7 242 72 .8 828 48 .8 034 69 .01 86 59
monta i	27727.44	นา ร.าทน м

What's New						
Positive	O19Z	Negative	Situation			
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	GVen					
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level		level				
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	сряиве		Account			



1. absolute value 2. distance 3. zero 4. positive 5. n	000 020 320
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What's I Have	op ı

ADDITION OF INTEGERS

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6. 23 9. 25 9. 25 103	6- 8- I 2-	2. 3. 4. 5.			
6. 10	91-	1.			
What's More					

Add Different Zero Negative positive	1. 2. 3. 4. 5.					
What I Have Learned						

	-	1. 2.
Сап Do	l de	чм

SUBTRACTION OF INTEGERS

		8. 114 4. 19 212 5. 5 3. 71	6. greater	
What's In 1. 20 211 3. 8 418	What's New 1. 32 212 3. 3 3. 3 420	What's More 2. 4 618 2. 4 711 34 822 4. 1 916 5. 26 10. 16	What I Have Learned 1. keep 2. addition 3. change 4. the same 5. different	What I Can Do 1. Php33, 750.00 2. 85

MULTIPLICATION OF INTEGERS

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	DIVISION OF INTEGERS													
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	2. A 10. D 15. C													
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3. C 8. B 13. B						T TAT/-7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	AA T T T						
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