تم تحميل هذا الملف من موقع المناهج الإماراتية



الملف كتاب النشاط باللغة الإنجليزية مع الحل

موقع المناهج ← المناهج الإماراتية ← الصف السادس ← رياضيات ← الفصل الثاني

روابط مواقع التواصل الاجتماعي بحسب الصف السادس للسلسليل روابط مواقع التواصل الاجتماعي بحسب الصف السادس روابط مواد الصف السادس على تلغرام التربية الاسلامية الاسلامية اللغراية الليخية العربية اللسادية الاسلامية الليخية العربية الاسلامية الليخية العربية الاسلامية المسادس على تلغرام

المزيد من الملفات بحسب الصف السادس والمادة رياضيات في الفصل الثاني		
دليل المعلم للفصل الثاني كامل	1	
كل مايخص الاختبار التكويني لمادة الرياضيات للصف السادس يوم الأحد 9/2/2020	2	
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McGraw-Hill Education

Mathematics

General Stream

United Arab Emirates Edition



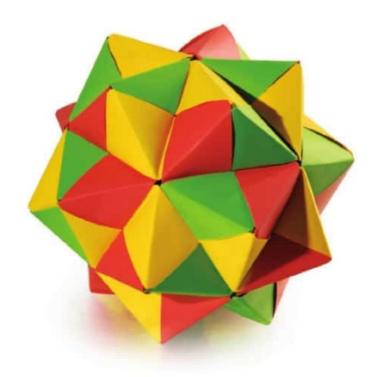
Interactive Student Guide











Answer Key

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Interactive Student Guide







Integers

HOW can positive and negative values be represented?

Use the exercises below to help answer the Inquiry Question. Write the correct word or phrase on the lines provide answers are given.

1. Rewrite the question in your own words.

See students' work

2. What key words do you see in the question?

positive, negative

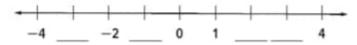
3. Is a positive number greater than or less than zegreater than

4. Does the (+) symbol represent a positive or negative number positive

5. Is a negative number greater than or less than zeroless than

6. Does the (-) symbol represent a positive or negative number egative

7. Write the missing numbers on the number line below.



8. What negative numbers did you write3, -1

9. What positive numbers did you write 2, 3

HOW can positive and negative values be represented?

You can represent negative and positive values using negative and positive signs with numbers. You can also represent them on a number line.

Lesson 1 Vocabulary

Integers and Graphing

Use the vocabulary squares to write a definition, a sentence, and an example for each vocabulary wor&le answers are given.

	Definition		
integer	any number from the set {4, -3, -2, -1, 0, 1, 2, 3, 4} where means continues without end		
Example	Sentence		
almanahi.Com/ae 5, 31, 0, -3, -64	Whole numbers and their opposites are all integers.		

	Definition		
positive integer	a whole number that is greater than zero; can be written with or without a "+" sign		
Example	Sentence		
7, 13, 654	I can count the number of people in the room using positive integers.		

negative integer	Definition the opposite of a natural number; It is less than zero. It is written with a "-" sign.
Example	Sentence
-6, -75, -1,647	The numbers -2, -4, -17, and -34 are negative integers.

Absolute Value

HOW can a number line help you find two integers that are the same distant from zero?

Use the exercises below to help answer the Inquiry Question. Write the correct word or phrase on the lines provide answers are given.

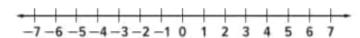
1. Rewrite the question in your own words.

See students' work

2. What key words do you see in the question?

number line, integers

Use the number line below to answer Exercises 3-8.



3. Are positive numbers to the right or left of zero? right

4. Are negative numbers to the right or left of zero? left

5. A(n) integer is a positive or negative whole number.





What two integers are 7 spaces from zero? 7 and -7



HOW can a number line help you find two integers that are the same distance from zero?

Plotting integers on a number line can help you find the distance from zero!

both positive and negative integers.

Lesson 2 Vocabulary

Absolute Value

Use the Word Cards to define each vocabulary word or phrase and give an example answers are given.

absolute value

Definition
the distance between a number and zero on a number line

Example Sentence
Sample answer: The absolute value of 2 is 2. The absolute value of -2 is 2.

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Word Cards

opposites

Definition

Integers are opposites if they are the same distance from zero in opposite directions.

Example Sentence

Sample answer: The numbers -2 and 2 are opposites.

$$-2 + 2 = 0$$

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Lesson 3 Notetaking

Compare and Order Integers

Use Cornell notes to better understand the lesson's concepts. Complete each sentence by filling in the blanks with the correct word or phrase.

Questions	Notes
1. How do I compare integers?	
2. How do I order integers?	I can use a <u>number line</u> to order a set of integers. I can compare <u>signs</u> and <u>absolute values</u> to order a set of integers.
How can symbols and abso	Summary plute value help you to order sets of integers?

Number Lines

HOW can you use a number line to model and compare positive and negative rational numbers?

Use the exercises below to help answer the Inquiry question. Write the correct word or phrase on the lines provide answers are given.

1. Rewrite the question in your own words.

See students' work.

2. Decimals and fractions are rational numbers

3. On a number line, numbers to the left aless than numbers to the right.

Use the number line below for Exercises 4-9.



4. Which number is smaller, $\frac{5}{6}$ of $-\frac{5}{6}$.

5. Which fraction is farther from $\frac{5}{6}$?

6. Which number is greater or $\frac{4}{6}$?

7. Which fraction is farther from $\frac{4}{6}$?

8. Compare two negative rational numbers on the number line. Use $\leq \frac{1}{\sqrt{5}} > -1$

9. Compare two positive rational numbers on the number line. Use < 5 > 5

HOW can you use a number line to model and compare positive and negative rational numbers

Negative values are lesser the farther they are from zero. Positive values are

greater the farther they are from zero.

Lesson 4 Vocabulary

Terminating and Repeating Decimals

Use the vocabulary squares to write a definition, a sentence, and an example for each vocabulary wordample answers are given.

	Definition		
rational number	a number that can be written as a fraction		
Example	Sentence		
almanahi.com/ae	The numbers $\frac{2}{2}$ and $7.\overline{5}$ are rational numbers.		

	Definition		
terminating decimal	the decimal form of a rational number which has a repeating digit of zero		
Example	Sentence		
4.25	The decimal form of 4 is a terminating decimal.		

	Definition		
repeating decimal	the decimal form of a rational number		
Example	Sentence		
2.3	The decimal form of 3 is a repeating decimal.		

Lesson 5 Notetaking

Compare and Order Rational Numbers

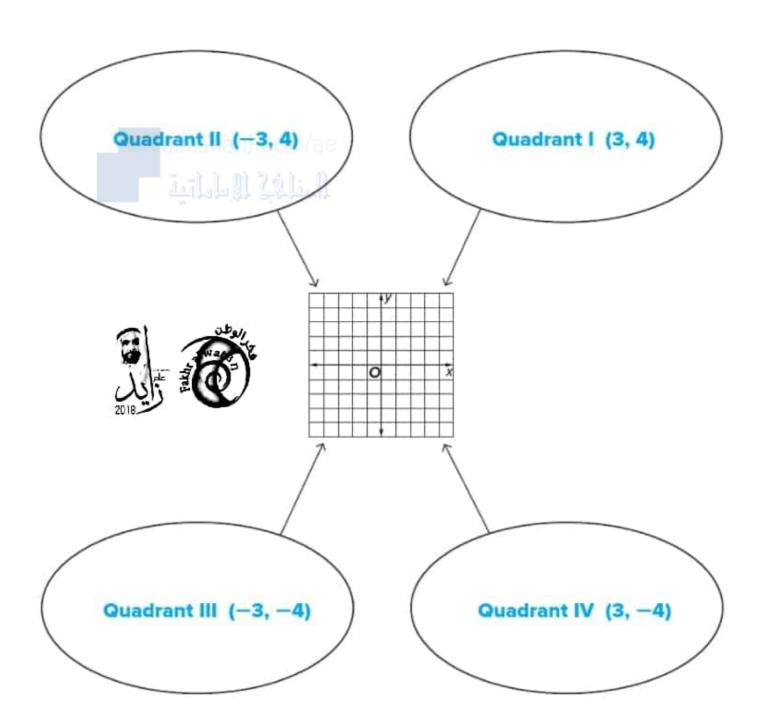
Use Cornell notes to better understand the lesson's concepts. Complete each sentence by filling in the blanks with the correct word or phrase.

Questions	Notes
1. How do I compare and order two fractions?	If the fractions do not have the same denominator I must rename the fractions using the least common denominator. Then I can use a number line to compare and order the two fractions.
2. How do I compare and order rational numbers?	First write the rational numbers in the same form Then I can use a number line to compare and order the numbers.
How can a number line help	Summary p in ordering rational numbers students' work.

Lesson 6 Vocabulary

The Coordinate Plane

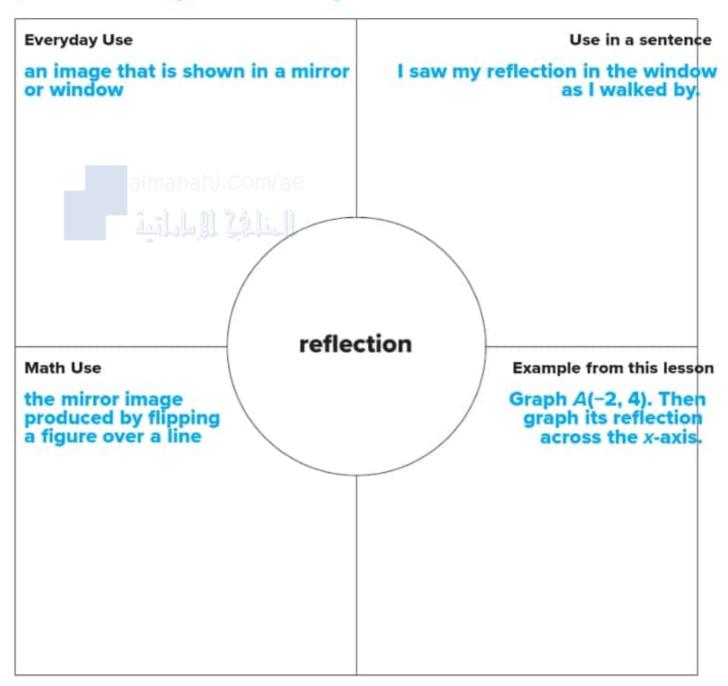
Use the concept web to identify the quadrants of the coordinate plane. Write an ordered pair to name a point in each quadratmple points are given.



Lesson 7 Review Vocabulary

Graph on the Coordinate Plane

Complete the four-square chart to review the word or phrase. Then answer the question belowSample answers are given.



What does it mean to reflect a point across the x-axis?

to find the	mirror image	of the poin	t on the ot	her side o	of the x-axis.	The poir
have the s	ame x-coordi	nates and th	ne y-coordi	nates are	opposites.	

2-----

Find Distance on the Coordinate Plane

WHAT is the relationship between coordinates and distance?

Use the exercises below to help answer the Inquiry Question. Write the correct word or phrase on the lines provided mple answers are given.

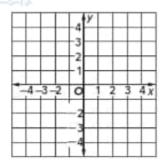
1. Rewrite the question in your own words.

See students' work

2. What key words do you see in the question?

relationship, coordinates, distance

Use the coordinate plane below to answer Exercises 3-6.



- 3. Are the x-coordinates on a horizontal or vertical line porizontal
- 4. Are the y-coordinates on a horizontal or vertical line? Vertical
- 5. What is the distance between the x-coordinates -3 and 2? 5
- 6. What is the distance between the y-coordinates 1 and -2? 3

WHAT is the relationship between coordinates and distance?

To find the distance between two points on a horizontal line, use their x-coordinates. To find the distance between two points on a vertical line, use their y-coordinates.

Structure of Expressions

HOW can you identify the parts of an expression using mathematical terms?

Use the exercises below to help answer the Inquiry Question.

Write the correct word or phrase on the lines provident answers are given.

Rewrite the question in your own words.

See students' work

- What key words do you see in the question? expression, mathematical terms
- 3. An expression is a combination of numbers and operations.
- 4. Each number or letter in an expression is called a term
- 5. What operation does each symbol represent?
 - a. + ____addition ___ c. × __multiplication
 - b. subtraction d. ÷ division
- 6. The answer to an addition problem is called the sum
- 7. The answer to a subtraction problem is called the difference
- 8. The answer to a multiplication problem is called the product
- 9. The answer to a division problem is called the quotient

HOW can you identify the parts of an expression using mathematical terms?

Each term of an expression is separated by a minus sign or a plus sign. Symbols, such as +, \div , and \times , help you to identify the expression as a sum, quotient, or product.

Lesson 1 Vocabulary

Powers and Exponents

Use the two column chart to organize the vocabulary in this lesson. Then write the definition of each wordample answers are given.

Term	Definition		
base	the number used as a factor		
exponent	the number that tells how many times the base is used as a factor		
powers	numbers expressed using exponents		
perfect square	numbers with square roots that are whole numbers		



Lesson 2 Vocabulary

Numerical Expressions

Use the word cards to define each vocabulary word or phrase and give an example. Sample answers are given.

numerical expression

Definition
a combination of numbers and operations

Example Sentence
You can use a numerical expression, to describe the cost of three AED 10 pizza delivered with a AED 5 delivery charge.

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Word Cards

order of operations

Definition

rules that tell which operation to perform first

Example Sentence

The order of operations tells you to simplify multiplication first, then addition in the expression $5 + 3 \times 10$.

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Lesson 3 Vocabulary

Algebra: Variables and Expressions

Use the two column chart to organize the vocabulary in this lesson. Then write the definition of each wordample answers are given.

Term	Definition		
algebra	a mathematical language of symbols, includin variables		
variable	a symbol, usually a letter, used to represent a number		
algebraic expression	a combination of variables, numbers, and at least one operation		
evaluate	to find the value of an algebraic expression by replacing variables with numbers		



Write Expressions

HOW can bar diagrams help you to write expressions in which letters stand for numbers?

Use the exercises below to help answer the Inquiry Question. Write the correct word or phrase on the lines provide ample answers are given.

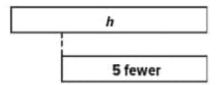
Rewrite the question in your own words.

See students' work

2. What key words do you see in the question?

diagrams, expressions, letters

Use the expression h-5 and the bar diagram shown to answer Exercises 3-7.



- 3. Letters stand for numbers that are unknown. What letter is used in the expression? _____h
- 4. What number is given in the expression? 5
- Why is the second bar in the bar diagram shorter?
 It shows that we are subtracting from h.
- 6. Write an expression that can be represented by the bar diagram 5
- How does the expression you wrote in Exercise 6 compare to the given expression?
 They are the same.

HOW can bar diagrams help you to write expressions in which letters stand for numbers?

Bar diagrams show the relationship between the letters that stand for numbers and the values of given numbers.

Lesson 4 Notetaking

Algebra: Write Expressions

Use Cornell notes to better understand the lesson's concepts. Complete each sentence by filling in the blanks with the correct word or phrase.

Questions	Notes
1. How do I write phrases as algebraic expressions?	First, I describe the situation using only the most important words. Then, I choose a variable to represent the unknown quantity. Last, I translate the phrase into an algebraic expression .
2. What is a two-step expression?	an algebraic expression containing two different operations
How can writing phrases as a	Summary algebraic expressions help me solve problems students' wor

Lesson 5 Vocabulary

Algebra: Properties

Use the two column chart to organize the vocabulary in this lesson. Then write the definition of each wordample answers are given.

Term	Definition
properties	statements that are true for any number
Commutative Property	The order in which numbers are added or multiplied does not change the sum or product.
Associative Property	The way in which numbers are grouped does not change the sum or product.
equivalent expressions	expressions that have the same value
Identity Properties	properties that state that the sum of any number and 0 equal the number and the product of any number and 1 equals the number

The Distributive Property

HOW can you use models to evaluate and compare expressions?

Use the exercises below to help answer the Inquiry Question. Write the correct word or phrase on the lines provide answers are given.

1. Rewrite the question in your own words.

See students' work.

2. What key words do you see in the question?

model, evaluate, compare

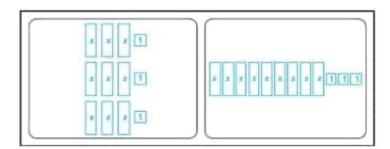
- 3. A model helps you see relationships between values.
- 4. To evaluate an expression means "to find the value of an expression."
- 5. The expression 3(2 + 4) is represented below by what kind of a model





- What word describes expressions that have the same value? equivalent
- Use algebra tiles to represent the expressions 3(3x + 1) and 9x + 3.
- 8. What does the model show you about the expressions?

They are equivalent.



HOW can you use models to evaluate and compare expressions?

An area model can show the relationships between the values in the expressions. Algebra tiles can be used to group like expressions and compare the two expressions.

Lesson 6 Notetaking

The Distributive Property

Use Cornell notes to better understand the lesson's concepts. Complete each answer by filling in the blanks with the correct word or phrase.

Questions	Notes
1. How do I use the Distributive Property?	
2. How do I factor an expression?	prime factorization and identify the common factors. I rewrite each term using the greatest common factor (GCF) Then I use the Distributive Property to write the expression as a product of the factors.
How can the Distributive Pr	Summary operty help me to rewrite expressions students' work.

Equivalent Expressions

HOW do you know that two expressions are equivalent?

Use the exercises below to help answer the Inquiry Question.

Write the correct word or phrase on the lines providently answers are given.

1. Rewrite the question in your own words.

See students' work

- 2. What key words do you see in the question?

 expressions, equivalent
- 3. Two expressions that have the same value acquivalent

Use the expressions 2x + 5x + 8 and 7x + 6 + 2 to answer Exercises 4-8.

- 4. How many -tiles are needed to model the first expression x-tiles
- 5. How many -tiles are needed to model the second expression tiles
- 6. How many 1-tiles are needed to model the first expression 1-tiles
- 7. How many 1-tiles are needed to model the second expression tiles
- 8. Are the expressions equivalent? Yes

HOW do you know that two expressions are equivalent?

Sample answer: The expressions 2(x + 1) and 2x + 2 are equivalent because both can be modeled using 2 x-tiles and 2 integer tiles. They have the same value.

Lesson 7 Vocabulary

Equivalent Expressions

Use the word cards to define each vocabulary word or phrase.

term			
Definition each part of an al	gebraic expre	ssion separated	by a plus
minus sign	The last		
Circle the terms in th			
	(5x) + (3y) -		

coef	ficient
Definition	
the numerica	al factor of a term that contains a variable
Circle the coef	ficients in the terms below.
	2z 7p -10y

Lesson 1 Vocabulary

Equations

Use the vocabulary squares to write a definition, a sentence, and an example for each vocabulary wordsample answers are given.

	Definition
equation	a mathematical sentence showing two expressions are equal
Example	Sentence
2+5=4+3;2+5=7;4+3=	7 2 + 5 = 7 is an equation.

	Definition
equals sign	a symbol of equality
Example	Sentence
4 + 3 = 7	All equations contain an equals sign.

	Definition	
solve	to replace a variable with a value that results in a true sentence	
Example	Sentence	
$3 \times 2 = y; y = 6$	Using the equation $3 \times 2 = y$, I can solve the equation by replacing y with 6.	

Solve and Write Addition Equations

HOW do you solve addition equations using models?

Use the exercises below to help answer the Inquiry Question.

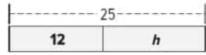
Write the correct word or phrase on the lines provion answers are given.

1. Rewrite the question in your own words.

See students' work.

- What key words do you see in the question? addition, models
- 3. What operation is used to combine, or add, numbers addition

Use the equation 12 + h = 25 and the bar diagram below for Exercises 4-8.



4. What is the unknown?



- 5. What is the other addend?
- 6. What does the full length of the bar diagram represent the sum
- 7. What related operation could you use to solve the equation
- 8. Write a subtraction sentence shown by the bar diagran $\frac{25}{h} \frac{12}{h} = h$

HOW do you solve addition equations using models?

You can solve an addition equation using a bar diagram. It provides a visual help determine what operation can be used to solve the equation.

Lesson 2 Vocabulary

Solve and Write Addition Equations

Use the word cards to define each vocabulary word or phrase and give an example. Sample answers are given.

inverse operations

Definition
operations which undo each other

Example Sentence
Addition and subtraction are inverse operations;
multiplication and division are inverse operations.

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Word Cards

Subtraction Property of Equality

Definition

If you subtract the same number from each side of an equation, they remain equal.

Example Sentence

The Subtraction Property of Equality allows us to subtract the number 3 from each side of the equation, x + 3 = 9.

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Solve and Write Subtraction Equations

HOW do you solve subtraction equations using models?

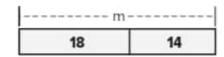
Use the exercises below to help answer the Inquiry Question.
Write the correct word or phrase on the lines provide answers are given.

1. Rewrite the question in your own words.

See students' work

- What key words do you see in the question? subtraction, models
- 3. What operation is used for taking away part of a whole? Subtraction
- 4. What models could you use to show subtraction bar diagram, counters

Use the bar diagram below for Exercises 5-7.



- 5. What is the total amount shown on the bar diagram?
- 6. What are the two parts shown on the bar diagram? 18 and 4
- 7. Write two subtraction sentences that are represented by the bar diagram.

$$m - 18 = 14$$

$$m - 14 = 18$$

HOW do you solve subtraction equations using models?

You can solve a subtraction equation using a bar diagram. The bar diagram shows the relationship between the parts and the total amount.

Lesson 3 Notetaking

Solve and Write Subtraction Equations

Use Cornell notes to better understand the lesson's concepts. Complete each sentence by filling in the blanks with the correct word or phrase.

Questions	Notes
1. How can I solve a subtraction equation?	I can use addition to solve a subtraction equation, because subtraction and addition are inverse operations
الإطاراتية	
2. What does the Addition Property of Equality say I can do to an equation?	I can add the number to each side of an equation and the sides will remain equal
How can the Addition Property equations? See students	erty of Equality be used to solve subtraction work.

Solve and Write Multiplication Equations

HOW do you solve multiplication equations using models?

Use the exercises below to help answer the Inquiry Question.

Write the correct word or phrase on the lines provided mple answers are given.

1. Rewrite the question in your own words.

See students' work

2. What key words do you see in the question?

multiplication, models

3. In a multiplication equation, the total amount is the **product** . The parts that are multiplied are the **factors** .

Use the bar diagram below for Exercises 4-7.



- 4. What is the total amount shown on the bar diagram? 18 meters
- 5. What is the unknown factor in the bar diagram?
- 6. How can you use the bar diagram to find the other factor in the equation?
 You can count the number of parts.
- 7. Write two multiplication sentences that are represented by the bar diagram.

$$b \times 6 = 18$$

$$6 \times b = 18$$

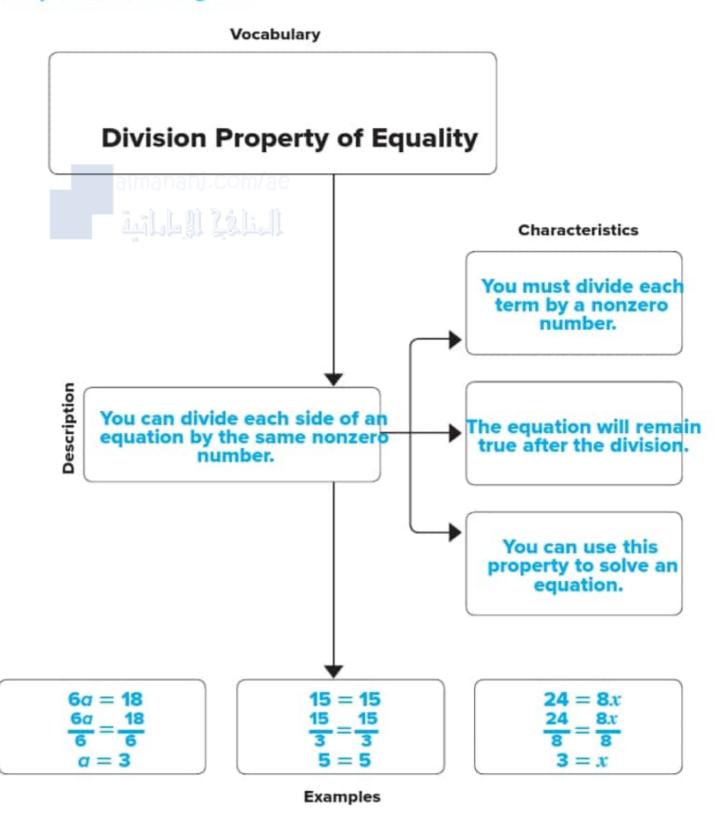
HOW do you solve multiplication equations using models?

You can solve a multiplication equation using a bar diagram. In the bar diagram, the total is represented by the whole bar. The factors are represent by the number of parts and the variable.

Lesson 4 Vocabulary

Solve and Write Multiplication Equations

Use the definition map to list qualities about the vocabulary word or phrase. Sample answers are given.



Solve and Write Division Equations

HOW do you solve division equations using models?

Use the exercises below to help answer the Inquiry question. Write the correct word or phrase on the lines provided mple answers are given.

1. Rewrite the question in your own words.

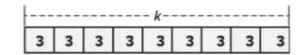
See students' work

division, models

2. What key words do you see in the question?

3. What operation is used to separate a total amount into equal parts? division

Use the bar diagram below for Exercises 4-7.



- 4. What is the total amount shown on the bar diagram?
- Into how many equal parts is k divided? 9 equal parts
- 6. What is the value of each part? 3
- 7. Write two division sentences that are represented by the bar diagram.

$$k \div 3 = 9$$

$$k \div 9 = 3$$

HOW do you solve division equations using models?

You can solve a division equation using a bar diagram. The bar diagram shov the relationship between the value of each part and the total amount.

Lesson 5 Notetaking

Solve and Write Division Equations

Use Cornell notes to better understand the lesson's concepts. Complete each answer by filling in the blanks with the correct word or phrase.

	The state of the state of princes.
Questions	Notes
How can I solve a division equation?	I can use <u>multiplication</u> to solve for a division equation, because division and <u>multiplication</u> are inverse operations
almanahi.c	om/ae
in Thing	
2. What does the Multiplication Property of Equality say I can do to an equation?	the same nonzero number, and the sides will remain equal
	why is it necessary to perform the same operation sign See students' work.

Lesson 1 Vocabulary

Function Tables

Use the two column chart to organize the vocabulary in this lesson. Then write the definition of each workample answers are given.

Term	Definition	
function	a relationship that assigns exactly one output value to one input value	
function rule	an expression that describes the relationship between each input and output	
function table	a table organizing the input, rule, and output of a function	
independent variable	the variable in a function with a value that is subject to choice	
dependent variable	the variable in a relation with a value that depends on the value of the independent variable	

Lesson 2 Vocabulary

Function Rules

Use the vocabulary squares to write a definition, a sentence, and an example for each vocabulary wordsample answers are given.

	Definition
sequence	a list of numbers in a specific orde
Example	Sentence
almanahi.com/ae 3, 5, 7, 9, 11, 13	A list of the first six odd numbers is a sequence.

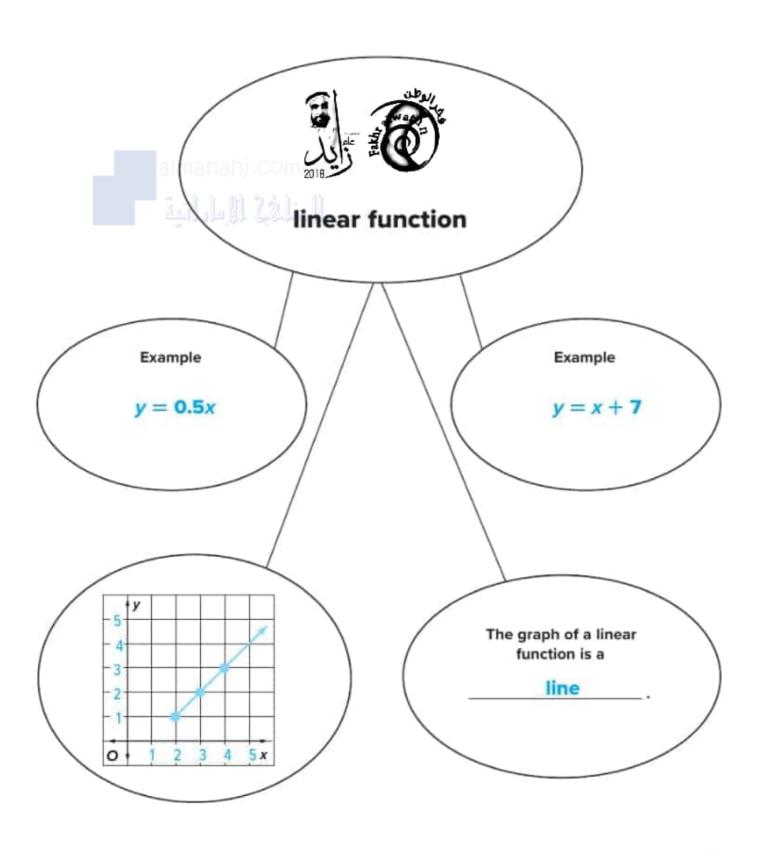
	Definition
arithmetic sequence	a sequence in which the difference between any consecutive terms is the same
Example	Sentence
3, 5, 7, 9, 11, 13	The first six odd numbers in order are an arithmetic sequence. You add 2 to the previous term.

	Definition	
geometric sequence	a sequence in which each term is found by multiplying the previous term by the same number	
Example	Sentence	
3, 6, 12, 24, 48	You can create a geometric sequence by multiplying the previous term by two.	
	Example	geometric sequence a sequence in which each term is found by multiplying the previous term by the same number Example Sentence You can create a geometric sequence by multiplying the

Lesson 3 Vocabulary

Functions and Equations

Use the concept web to identify different characteristics of a linear function. Use a graph in one of the pieces of the wesample answers are given.

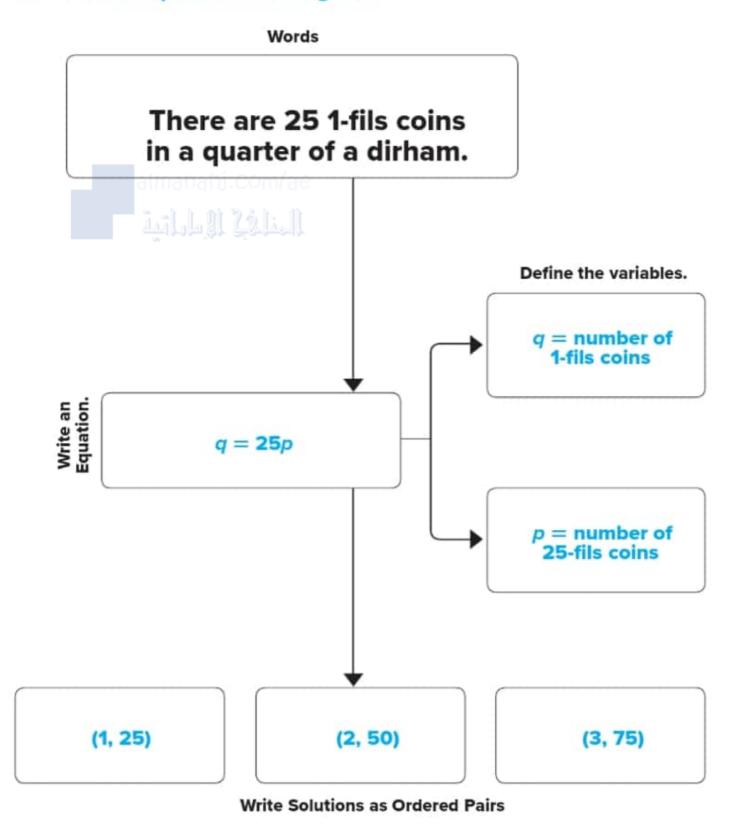


Grade 6 · Chapter & unctions and Inequalities

Lesson 4 Notetaking

Multiple Representations of Functions

Use the definition map to list qualities about the multiple representations of the function. Sample answers are given.



Inequalities

HOW can bar diagrams help you to compare quantities?

Use the exercises below to help answer the Inquiry Question.

Write the correct word or phrase on the lines provided mple answers are given.

1. Rewrite the question in your own words.

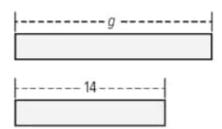
See students' work

2. What key words do you see in the question?

compare, quantities

- 3. What does the > symbol mean? greater than
- 4. What does the < symbol mean? less than

Use the bar diagrams below to answer the Exercises 5-7.



- 5. Is g greater than or less than 14? greater than
- 6. How can you tell?

The bar diagram for g is longer than the bar diagram for 14.

7. Write the inequality shown by the bar diagram 14 or 14 < g

HOW can bar diagrams help you to compare quantities?

The length of two bar diagrams can help you determine if two quantities are equal or if one amount is greater than or less than the other.

Lesson 5 Vocabulary

Inequalities

Use the word cards to define each vocabulary word or phrase and give an example. Sample answers are given.

inequality

Definition
a mathematical sentence indicating that two quantities are not equal

Example Sentence
I can write an inequality to show that my age, 13, is greater than my brother's age, 10.

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Variable

Definition
a symbol, usually a letter, used to represent a number

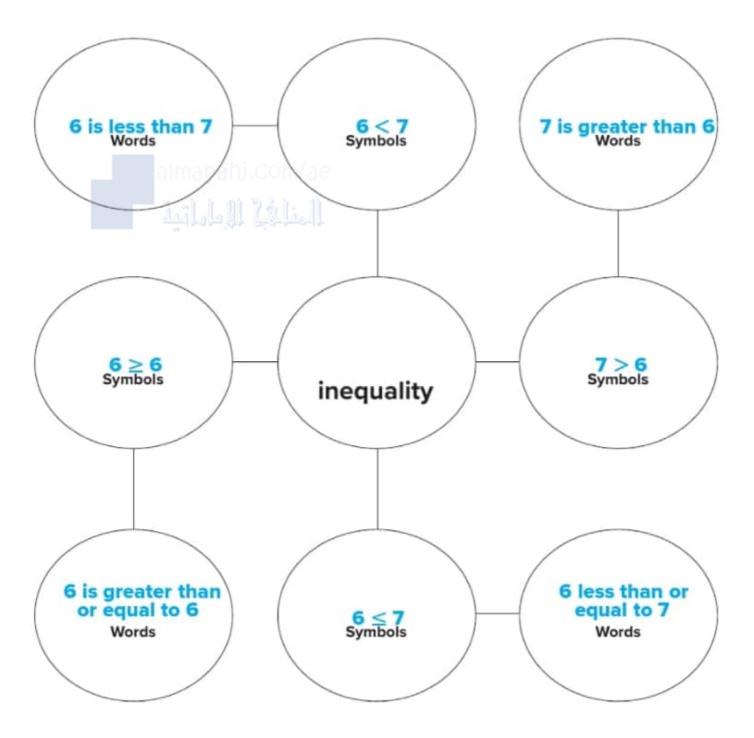
Example Sentence
The variable x is used in the inequality 13 > 10x.

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Lesson 6 Review Vocabulary

Write and Graph Inequalities

Use the concept web to show examples of inequalities using words and symbols. Sample answers are given.



Solve One-Step Inequalities

HOW can you use bar diagrams to solve one-step inequalities?

Use the exercises below to help answer the Inquiry question. Write the correct word or phrase on the lines provided mple answers are given.

1. Rewrite the question in your own words.

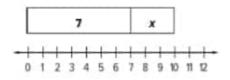
See students' work

2. What key words do you see in the question?

bar diagrams, inequalities

- 3. A math sentence that compares quantities is called inequality
- 4. What symbols are used to show an inequality ?, \le , \le ,

Use the bar diagram below to answer Exercises 5-8:







- 5. What is the given value?
- 6. What value of x would make the total amount equal to 10?
- 7. What value of x would make the total amount greater than 10? Write the inequality. any value greater than 3; x > 3
- 8. What value of x would make the total amount less than 10? Write the inequality. any value less than 3; x < 3

HOW can you use bar diagrams to solve one-step inequalities?

Bar diagrams help you to determine the value of the whole as well as the possible values of each part.

Lesson 7 Notetaking

Solve One-Step Inequalities

Use Cornell notes to better understand the lesson's concepts. Complete each sentence by filling in the blanks with the correct word or phrase.

Questions	Notes
1. How do I use Addition and Subtraction Properties to solve inequalities?	the same number from each side of an inequality and the inequality remains true
ة الإماراتية	
2. How do I use Multiplication and Division Properties to solve inequalities?	the same positive number from each side of an inequality and the inequality remains true
How is solving an inequality	similar to solving an equations students' work.