Math6.org Activities for Integers

Vocabulary Studies

- ___1) On-Line Word Search
- ____2) 3 Column Notes
- ____3) Flash Cards
- 4) Crossword Puzzle
- 5) Matching Practice
- ___6) Vocabulary Millionaire!

Tests and Games

- ____40) Mid Chapter Quiz
- ____41) Quiz Bowl
- ____42) Practice Test
- ____43) Integers Millionaire

Activities by Lesson

9.1 Understanding Integers

- ___7) Review Worksheet
- ___8) Lesson Quiz
- 9) **Earth Extremes

9.2 Compare and Order Integers

- ____10) Review Worksheet
- ____11) Compare Integers (GP)
 - ___12) Ordering Integers (GP)
 - __13) Lesson Quiz
 - ___14) **Extreme Earth 2

9.3 The Coordinate Plane

- ___15) Review Worksheet
- ___16) Coordinates Practice
- ____17) Lesson Quiz
 - 18) **Draw by Numbers

9.4 Adding Integers

- 19) Review Worksheet
- 20) Adding Integers (GP)
- 21) Lesson Quiz
 - 22) **Quick Draw Challenge

9.5 Subtracting Integers

- ____23) Review Worksheet
- ____24) Subtracting Integers (GP)
- ____25) Rewriting Subtraction Problems
- ____26) Lesson Quiz
- ____27) **Quick Draw Challenge 2

9.6 Multiplying Integers

- ____28) Review Worksheet
- ____29) Multiplying Integers (GP)
- ____30) Lesson Quiz
 - _31) **Function Tables (Part 1)

9.7 Dividing Integers

- ____32) Review Worksheet
- ___33) Dividing Integers (GP)
- ___34) Lesson Quiz
- __35) **Function Tables (Part 2)

9.8 Equations with Integers

- ____36) Review Worksheet
- ____37) Equations with Integers (GP)
- ____38) Lesson Quiz
- ____39) **Balancing Act

Word List – 3 Column Notes

Word	Definition	Example
absolute value	The distance from 0 that an integer is on a number line.	-6 is the absolute value of -6. -6 = 6
axes		
axis		
coordinate plane		
coordinates		
integer		
negative numbers		
opposites		
origin		
positive numbers		
quadrants		
x-axis		
x-coordinate		
y-axis		
y-coordinate		

You will need to copy this onto your own paper to make proper 3 column notes.

Math Journal - Chapter 9 - Integers

- 9.01 Choose any 5 negative numbers. Create a situation to describe each integer.
- 9.02 Create a flow map to walk a student through the process of comparing and ordering integers. Use a model/example. Write a "how to" paragraph or booklet.
- 9.03 Use a coordinate plane. Draw a picture. Plot and record important coordinates. Have a friend reproduce your picture.
- 9.04 Write a paragraph that gives an educated opinion as to why there are different rules (algorithms) for the addition of positive integers and the addition of negative integers.
- 9.05 Create a model to show that the difference between two negative numbers can be a positive number. Explain your model.
- 9.06 The extension for this lesson @ Math6.org will introduce you to Function Tables. It is very easy and very valuable. Complete this extension OR Create a table to show the sign of a product of 2 negative numbers...3 negative numbers ... 4 negative numbers and 5 negative numbers. Write a single sentence summary to discuss your findings.
- 9.07 The extension for this lesson @ Math6.org will take you from the Function Tables to graphing lines on the Coordinate Plane. It is very easy and very valuable. Complete this extension OR examine the table on page 479. Write a exposition style paragraph to discuss why both positive and negative numbers are needed when tracking changes in population. (Intro Body Conclude)
- 9.08 Write a 3 paragraph persuasion exposition to convince the student body that there is a need for integers in our number system.

General Scoring Rubric:

- 0 No Response
- 1 Wrong response
- 2 Weak response
- 3 Showed understanding
- 4 Showed understanding and cited an example
- 5 Showed understanding, cited examples and communicated effectively enough to enable others to understand.

Name _____

Ratio, Proportion and Percents Vocabulary Matching

1)	absolute value	A) m the horizontal axis of a coordinate plane
2)	additive inverse	B) numbers that are the same distance from 0.
3)	axes	C) numbers that are less than 0
		D) the distance from 0 that an integer is on a number line
4)	axis	E) numbers that are greater than 0
5)	coordinate plane	F) formed when two axes intersect; the point of intersection is 0 on
6)	coordinates	each number line
		G) one of the four sections or areas created in a coordinate plane.
7)	integer	H) ordered pairs that give the x and y location of a point in on a
8)	negative numbers	plane
9)	opposites	I) the set of whole numbers and their opposites
10)	origin	J) the singular form of axes; usually the x and y
		K) opposite numbers that have a sum of 0
11)	positive numbers	L) two number lines that form a perpendicular intersection and
12)	quadrants	create a coordinate plane
13)	x-axis	M) the first number in ordered pair; shows the x-axis value of a point
14)	x-coordinate	N) the second number in an ordered pair; shows the y-axis value of a
		point
15)	y-axis	O) the point where the axes of a coordinate plane intersect (0,0)
16)	y-coordinate	P) the vertical axis of a coordinate plane

N	ame	
1 1	ame	-

Ratio, Proportion and Percents Vocabulary Matching

Key						
1)	D					
2)	K					
3)	L					
4)	J					
5)	F					
6)	Н					
7)	Ι					
8)	С					
9)	В					
10)	0					
11)	E					
12)	G					
13)	A					
14)	М					
15)	Р					

16)

Ν

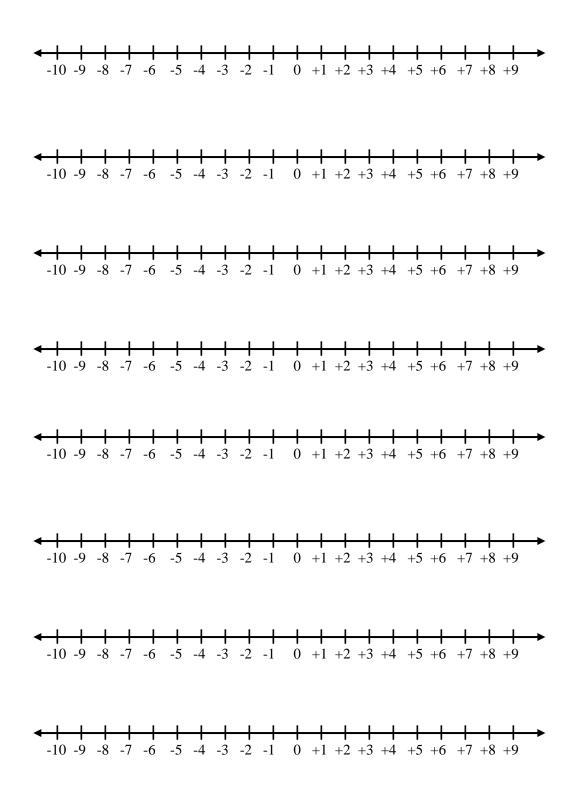
1.01a

The student will develop number sense for negative rational numbers, connect the model, number word, and number using a variety of representations, including the number line.

Instructor: Subject: Math Grade 6	Time Frame: 80 minutes Date:
	Understanding Integers
Essential Question:	Do you find that you prefer to consider integers using a number line or by using absolute values? (Explain)
Objective (s) Numbers: Outcomes:	1.01a The student will develop number sense for negative rational numbers, connect the model, number word, and number using a variety of representations, including the number line.
Materials: Anticipatory Set:	Textbook pages 450-453; Number Lines Today we will learn identify and graph integers, find opposites, and find the absolute value of an integer.
	During the Lesson
Presentation of Information: Integration of Other Subjects: Integration of Reading: Integration of Technology:	Writing (narrative) Reading (vocabulary, problem solving, analyzing expectation) Reading for information and interpretation. Computer, Projector, PowerPoint, Internet
Modeling:	Discuss vocabulary and model using a number line. {positive, negative, opposite, absolute value}
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	 Have the students decide what integer would represent: an increase of 6 points, a loss of 15 pounds, a bank withdrawal of \$50 Have the students graph {-3, 2, -5} and their opposites. Have the students graph -3 and examine its absolute value. Repeat for -5 , 3 and -1
	After the Lesson
Independent Practice	Text page 452-453 {1–2, 11–14, 39–43} AIG: {11–14, 23–24, 39–43} Assign workbook page 9.1
Closure / Assessment:	Choose any 5 negative numbers. Create a situation to describe each integer.
Reflection:	
Integration with School-wide For	cus: Improve mathematics computation and problem solving.

Related Math6.org Activities: There are **5** activities connected with this lesson **Earth Extremes

Number Lines



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1.01b; 1.03

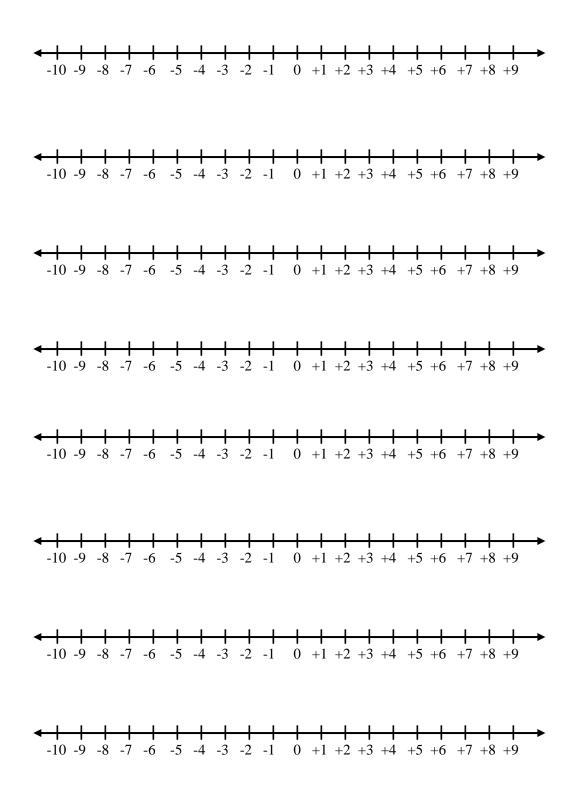
The student will develop number sense for negative rational numbers. The student will be able to compare and order rational numbers.

Instructor: Subject: Math Grade 6	Time Frame: 80 minutes Date:
	Comparing and Ordering Integers
Essential Question:	Do you find that you prefer to compare integers using a number line or by using absolute values? (Explain)
Objective (s) Numbers: Outcomes:	1.01b; 1.03 The student will develop number sense for negative rational numbers. The student will be able to compare and order rational numbers.
Materials:	Textbook pages 454-457; Number Lines
Anticipatory Set:	Today we will learn to compare and order rational numbers including integers.
Presentation of Information: Integration of Other Subjects:	Writing (sequencing / how to) Reading (vocabulary, problem solving, analyzing expectation)
Integration of Reading: Integration of Technology:	Reading for information and interpretation. Computer, Projector, PowerPoint, Internet
Modeling:	There are 2 ways to compare and order integers. You can use a number line to see the values or you can apply an absolute value rule.
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	Complete the Guided Practices (Comparing Integers)(Ordering Integers) from Math6.org.
	After the Lesson
Independent Practice	Text page 456-457 {1–6, 8–16, 30} AIG: {20–35} Assign workbook page 9.2
Closure / Assessment:	Create a flow map to walk a student through the process of comparing and ordering integers. Use a model/example. Write a "how to" paragraph or booklet.
Reflection:	

Integration with School-wide Focus: Improve mathematics computation and problem solving.

Related Math6.org Activities: There are 7 activities connected with this lesson Compare Integers Guided Practice Ordering Integers Guided Practice **Extreme Earth 2

Number Lines



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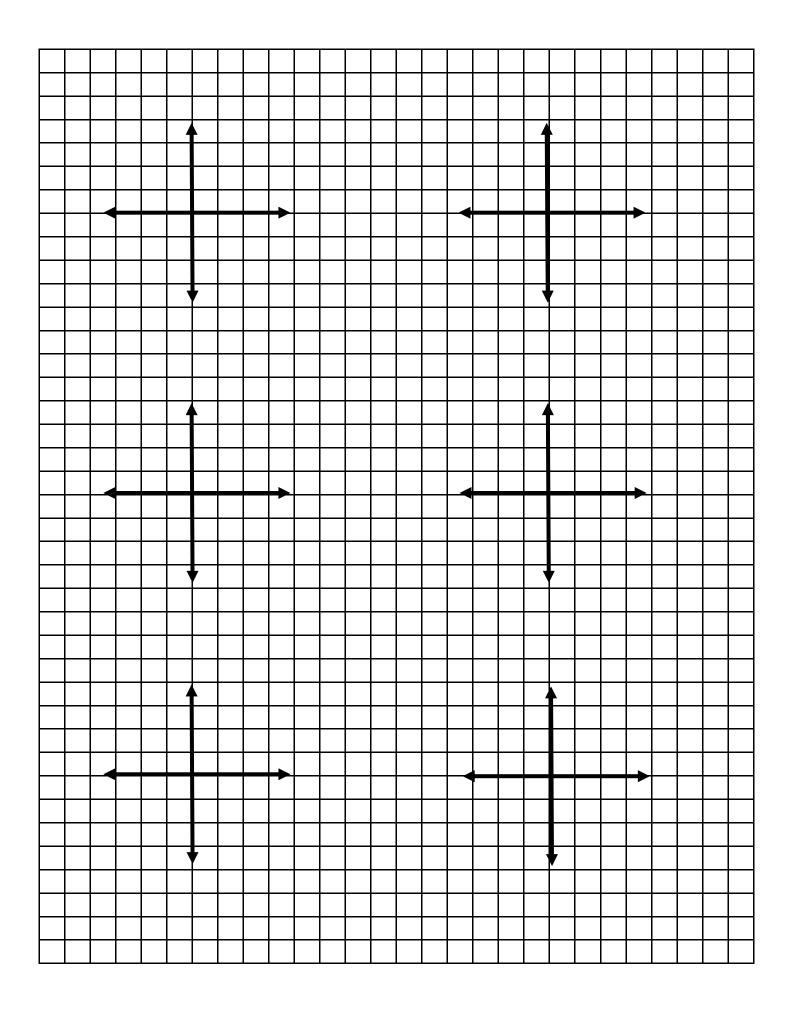
3.04

The student will be able to solve problems involving geometric figures in the coordinate plane.

Instructor: Subject: Math Grade 6	Time Frame: 80 minutes Date:
	The Coordinate Plane
Essential Question:	The quadrants on the coordinate plane are simple (once you get over the counter- clockwise start). Can you develop a plan to help your classmates remember to go counter-clockwise when numbering the quadrants on the coordinate plane?
Objective (s) Numbers: Outcomes:	3.04 The student will be able to solve problems involving geometric figures in the coordinate plane.
Materials: Anticipatory Set:	Textbook pages 458-461; Coordinate Planes; Reteaching 9.3 Today we learn to solve problems involving geometric figures in the coordinate plane.
	During the Lesson
Presentation of Information: Integration of Other Subjects:	Geography (map skills) Reading (vocabulary, problem solving, analyzing expectation) Reading for information and interpretation.
Integration of Reading: Integration of Technology:	Computer, Projector, PowerPoint, Internet
Modeling:	Discuss and model the vocabulary; coordinate plane, axes, x-axis, y-axis, quadrants, origin, coordinates, x-coordinate, y-coordinate.
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	Use Reteaching 9.3 as the guided practice.
	After the Lesson
Independent Practice	Text page 460-461 {1–18, 28–31} AIG: {7–31,32} Assign workbook page 9.3
Closure / Assessment:	Use a coordinate plane. Draw a picture. Plot and record important coordinates. Have a friend reproduce your picture.
Reflection:	
Integration with School-wide For	cus: Improve mathematics computation and problem solving.
Related Math6.org Activities: Coordinates Practice	There are 6 activities connected with this lesson

**Draw by Numbers

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Date Class

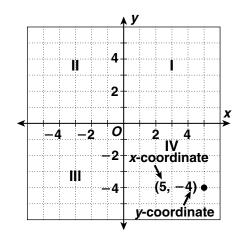
LESSON Reteach

9-3 The Coordinate Plane

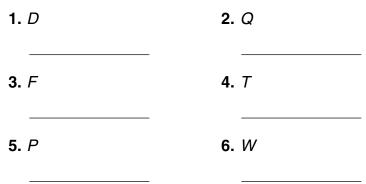
The coordinate plane is divided into four quadrants. They are numbered I, II, III, and IV.

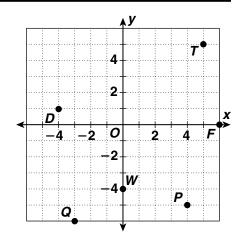
An ordered pair tells the location of a point. The *x*-coordinate tells you how far to move right or left. The y-coordinate tells you how far to move up or down.

The coordinates of point A are (5, -4) because it is 5 units to the right of the origin and 4 units down. It is located in quadrant IV.



Name the quadrant or axis where each point is located. Then give the coordinates of each point.



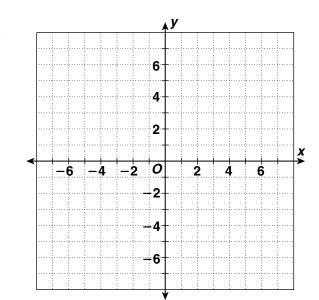


Graph each point in the coordinate plane.

7. *B* (−1, 6)

- **8.** *R* (8, -5)
- **9.** V(-3, -4)

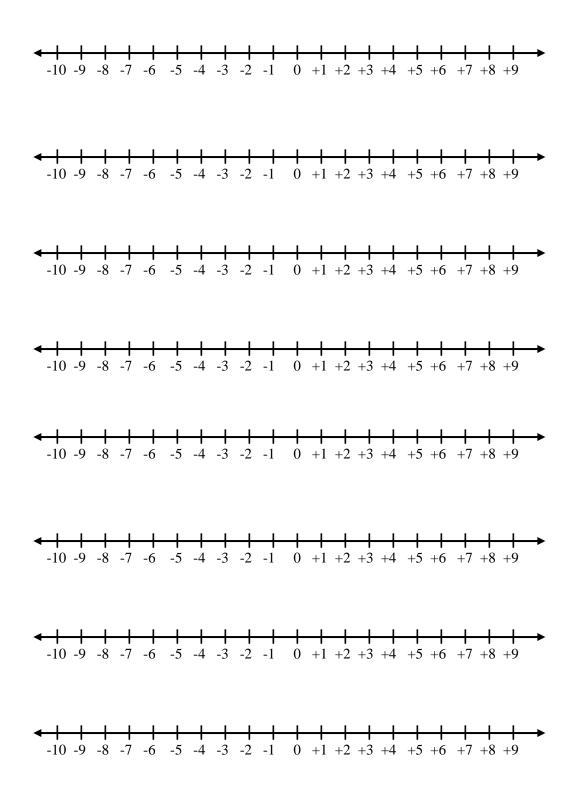
10. *Z* (0, -6)



1.01a; 1.03; 1.04b; 5.02

The student will be able to connect the model, number word, and number using a variety of representations, including the number line; Compare and order rational numbers; Describe the effect of operations on size; Use and evaluate algebraic expressions.

Number Lines



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Instructor:	Time Frame: 80 minutes
Subject: Math Grade 6	Date:
	Adding Integers
Essential Question:	Which method for adding integers do you think is the most useful; using a number line or by using the algorithm? (Explain)
Objective (s) Numbers: Outcomes:	1.01a; 1.03; 1.04b; 5.02 The student will be able to connect the model, number word, and number using a variety of representations, including the number line; Compare and order rational numbers; Describe the effect of operations on size; Use and evaluate algebraic expressions.
Materials:	Textbook pages 464-468; Number Lines
Anticipatory Set:	Today we will learn to add integers using number lines and algorithms.
	During the Lesson
Presentation of Information: Integration of Other Subjects: Integration of Reading: Integration of Technology:	Writing (opinion) Reading (vocabulary, problem solving, analyzing expectation) Reading for information and interpretation. Computer, Projector, PowerPoint, Internet
Modeling:	To add integers, you need to examine the signs and then follow a rule. Same Signs Drop the signs. Add. Return the sign.
	Different Signs Drop the signs. Subtract. Return the sign of the integer with the greatest absolute value.
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	Use the guided practice, Adding Integers, from Math6.org.
	After the Lesson
Independent Practice	Text page 467 - 468 {1–32} AIG : {12–43) Assign workbook page 9.4
Closure / Assessment:	Write a paragraph that gives an educated opinion as to why there are different rules (algorithms) for the addition of positive integers and the addition of negative integers.
Reflection:	
Integration with School wide For	cus: Improve mathematics computation and problem solving.

Integration with School-wide Focus: Improve mathematics computation and problem solving.

Related Math6.org Activities: Adding Integers Guided Practice

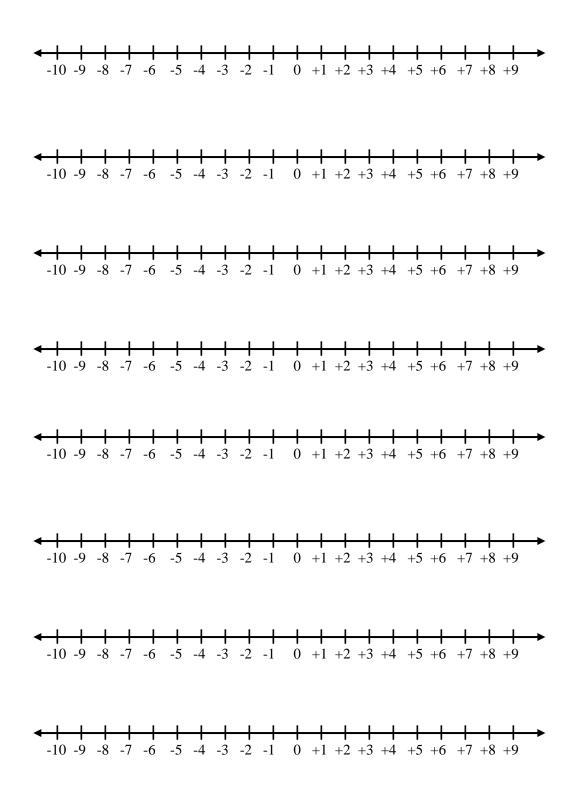
There are 6 activities connected with this lesson

**Quick Draw Challenge

1.01a; 1.03; 1.04b; 5.02

The student will be able to connect the model, number word, and number using a variety of representations, including the number line; Compare and order rational numbers; Describe the effect of operations on size; Use and evaluate algebraic expressions.

Number Lines



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Instructor: Subject: Math Grade 6	Time Frame: 80 minutes Date:
	Subtracting Integers
Essential Question:	Which method for subtracting integers do you think is the most useful; using a number line or by using the algorithm? (Explain)
Objective (s) Numbers: Outcomes:	1.01a; 1.03; 1.04b; 5.02 The student will be able to connect the model, number word, and number using a variety of representations, including the number line; Compare and order rational numbers; Describe the effect of operations on size; Use and evaluate algebraic expressions.
Materials:	Textbook pages 470-472; Number Lines
Anticipatory Set:	Today we will learn to subtract integers using number lines and algorithms.
	During the Lesson
Presentation of Information: Integration of Other Subjects: Integration of Reading: Integration of Technology:	Writing (compare/contrast) Reading (vocabulary, problem solving, analyzing expectation) Reading for information and interpretation. Computer, Projector, PowerPoint, Internet
Modeling:	To subtract integers, you need to: 1. Rewrite the problem as an addition problem. 2. Reverse the sign of the subtrahend. 3. Follow an addition rule.
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	Use the guided practice, Subtracting Integers, from Math6.org.
	After the Lesson
Independent Practice	Text page 471-472 {1-4, 8-11, 27} AIG: {5-3231 is your journal} Assign workbook page 9.5
Closure / Assessment:	Create a model to show that the difference between two negative numbers can be a positive number. Explain your model.
Reflection:	

Integration with School-wide Focus: Improve mathematics computation and problem solving.

Related Math6.org Activities: There are 7 activities connected with this lesson Subtracting Integers Guided Practice Rewriting Subtraction Problems Practice **Quick Draw Challenge 2

1.01a; 1.03; 1.04b; 5.02

The student will be able to connect the model, number word, and number using a variety of representations, including the number line; Compare and order rational numbers; Describe the effect of operations on size; Use and evaluate algebraic expressions. Instructor: ___ Subject: Math Grade 6 Time Frame: 80 minutes Date:

Multiplying Integers

Essential Question: Is it easier to multiply or add integers? (Explain)

Objective (s) Numbers: Outcomes:

1.01a; 1.03; 1.04b; 5.02 The student will be able to connect the model, number word, and number using a variety of representations, including the number line; Compare and order rational numbers; Describe the effect of operations on size; Use and evaluate algebraic expressions.

Textbook pages 473-475 Materials: Anticipatory Set:

Today we will learn to multiply integers using an algorithm.

During the Lesson

Presentation of Information: Integration of Other Subjects:

Integration of Other Subjects:	Writing (summary) Reading (vocabulary, problem solving, analyzing expectation)
Integration of Reading: Integration of Technology:	Reading for information and interpretation. Computer, Projector, PowerPoint, Internet
integration of rechnology.	Computer, Projector, Powerroint, Internet
Modeling:	To multiply integers you need to follow a rule. Same Signs create a positive product. Different Signs create a negative product.
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	Use the guided practice, Multiplying Integers, from Math6.org.
	After the Lesson
Independent Practice	Text page 474 - 475 {1–6, 13–18, 25–32} AIG: {1–6, 13–18, 25–29, 42, 44} Assign workbook page 9.6
Closure / Assessment:	The extension for this lesson @ Math6.org will introduce you to Function Tables. It is very easy and very valuable. Complete this extension OR Create a table to show the sign of a product of 2 negative numbers3 negative numbers 4 negative numbers and 5 negative numbers. Write a single sentence summary to discuss your findings.

Reflection:

Integration with School-wide Focus: Improve mathematics computation and problem solving.

Related Math6.org Activities: There are 6 activities connected with this lesson **Multiplying Integers Guided Practice** **Function Tables (Part 1)

1.01a; 1.03; 1.04b; 5.02

The student will be able to connect the model, number word, and number using a variety of representations, including the number line; Compare and order rational numbers; Describe the effect of operations on size; Use and evaluate algebraic expressions.

Instructor: Subject: Math Grade 6	Time Frame: 80 minutes Date:
	Dividing Integers
Essential Question:	For dividing integers we stuck with basic facts and simple division problems. Many students find that division facts are/were easier to learn than multiplication facts. Do you find multiplication facts or division facts the easier to remember? (Explain)
Objective (s) Numbers: Outcomes:	1.01a; 1.03; 1.04b; 5.02 The student will be able to connect the model, number word, and number using a variety of representations, including the number line; Compare and order rational numbers; Describe the effect of operations on size; Use and evaluate algebraic expressions.
Materials:	Textbook pages 476-479
Anticipatory Set:	Today we will learn to use an algorithm to divide integers.
	During the Lesson
Presentation of Information: Integration of Other Subjects: Integration of Reading: Integration of Technology:	Writing (exposition) Reading (vocabulary, problem solving, analyzing expectation) Reading for information and interpretation. Computer, Projector, PowerPoint, Internet
Modeling:	To divide integers you need to follow the same rule that you used for multiplying! Same Signs create a positive quotient. Different Signs create a negative quotient.
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	Use the guided practice, Dividing Integers, from Math6.org.
	After the Lesson
Independent Practice	Text page 478-479 {13–34} AIG: {19-36} Assign workbook page 9.7
Closure / Assessment:	The extension for this lesson @ Math6.org will take you from the Function Tables to graphing lines on the Coordinate Plane. It is very easy and very valuable. Complete this extension OR examine the table on page 479. Write a exposition style paragraph to discuss why both positive and negative numbers are needed when tracking changes in population. (Intro - Body - Conclude)
Reflection:	

Integration with School-wide Focus: Improve mathematics computation and problem solving.

Related Math6.org Activities: There are 6 activities connected with this lesson Dividing Integers Guided Practice **Function Tables (Part 2)

5.03

The student will be able to solve simple (one-and two-step) equations or inequalities.

Instructor: _____ Subject: Math Grade 6

Integer Equations

Essential Question:	Do you find that you prefer to consider integers using a number line or by using absolute values?		
Objective (s) Numbers:	5.03		
Outcomes:	The student will be able to solve simple (one-and two-step) equations or inequalities.		
Materials:	Textbook pages 482-485		
Anticipatory Set:	Today we will use and evaluate algebraic expressions involving integers.		
	During the Lesson		
Presentation of Information:			
Integration of Other Subjects:	Writing (persuasion)		
Internetion of Decilie m	Reading (vocabulary, problem solving, analyzing expectation)		
Integration of Reading: Integration of Technology:	Reading for information and interpretation. Computer, Projector, PowerPoint, Internet		
integration of reenhology.			
Modeling:	Solving equations with integers uses the same process as the other algebra that you		
	have studied.		
	 Simplify the equation (if possible) Use inverse operations to get the variable alone. 		
	3. Check with substitution.		
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to		
	guide all students to reach expected outcomes.		
	5 ····· ······························		
Guided Practice:	Use the guided practice, Integer Equations, from Math6.org.		
After the Lesson			
Independent Practice	Text page 484 - 485 {19-41}		
	AIG: {30-45, 48}		
	Assign workbook page 9.8		
Closure / Assessment:	Write a 3 paragraph persuasion exposition to convince the student body that there is		
	a need for integers in our number system.		
Reflection:			
Integration with Sahaal wide Ea	aux: Improve methomotics computation and problem colving		

Integration with School-wide Focus: Improve mathematics computation and problem solving.

Related Math6.org Activities: There are 6 activities connected with this lesson Equations with Integers Guided Practice **Balancing Act

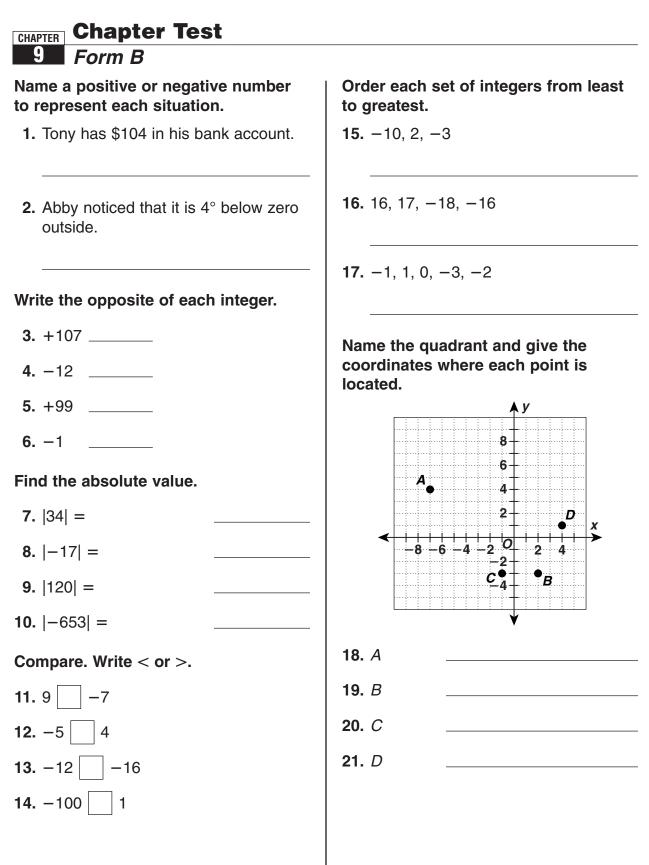
1.01a, 1.01b, 1.03, 1.04b, 3.04, 5.02, 5.03

The student will develop number sense for negative rational numbers, connect the model, number word, and number using a variety of representations, including the number line; The student will develop number sense for negative rational numbers; The student will be able to compare and order rational numbers; The student will describe the effect of operations on size; The student will be able to solve problems involving geometric figures in the coordinate plane; The student will use and evaluate algebraic expressions; The student will be able to solve simple (one-and twostep) equations or inequalities.

Instructor: Subject: Math Grade 6	Time Frame: 80 minutes Date:
Subject. Main Grade 0	
	Computation with Fractions Chapter Review
Essential Question:	What steps do you think have been the most helpful in preparing yourself for the examination on a set of skills? (decision making)
Objective (s) Numbers: Outcomes:	1.01a, 1.01b, 1.03, 1.04b, 3.04, 5.02, 5.03 The student will develop number sense for negative rational numbers, connect the model, number word, and number using a variety of representations, including the number line; The student will develop number sense for negative rational numbers; The student will be able to compare and order rational numbers; The student will describe the effect of operations on size; The student will be able to solve problems involving geometric figures in the coordinate plane; The student will use and evaluate algebraic expressions; The student will be able to solve simple (one-and two-step) equations or inequalities.
Materials: Anticipatory Set:	Textbook pages 492-495; Test Form B Today we will review the skills that we have been studying during this unit. We will practice test taking skills and remediate those skills about which we don't feel as comfortable as others.
	During the Lesson
Presentation of Information:	
Integration of Other Subjects:	
Integration of Reading: Integration of Technology:	Reading (vocabulary, problem solving, analyzing expectation) Reading for information and interpretation. Computer, Projector, PowerPoint, Internet
Modeling:	Discuss the value of careful review, the process that should occur when errors are made and the importance of reviewing material that students are less comfortable with.
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	Discuss Instructions for the review on pages 492-494. Have the students review the Headings and address and questions or requests for immediate remediation.
	After the Lesson
Independent Practice	Text page 492-494 {1-59} AIG : {1-59} Assign Test Form B
Closure / Assessment:	Have co-operative learning groups review and discuss their answers before turning their papers in for correction by the teacher.
Reflection:	

Integration with School-wide Focus: Improve mathematics computation and problem solving.

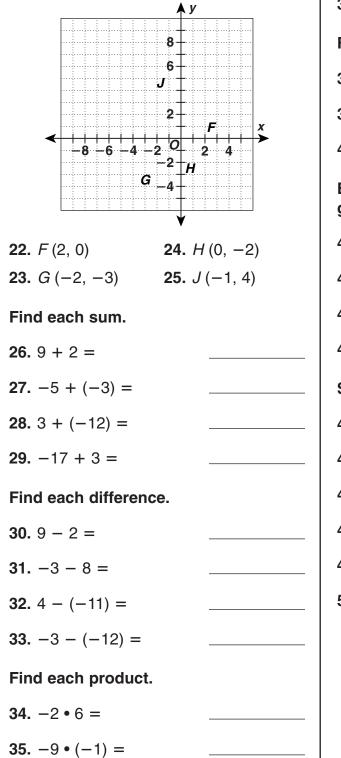
Related Math6.org Activities: There are many activities connected with this lesson Vocabulary Matching Practice Practice Test Integers Quiz Bowl Integers Millionaire



Date _____ Class _

CHAPTER Chapter Test 9 Form B, continued

Graph each point in the coordinate plane.



36. 6 • (-6) =
37. -8 • 3 =
Find each quotient.
38. 21 ÷ 7 =
39. 50 ÷ (-2) =
40. −30 ÷ (−5) =
Evaluate each expression for the given value of the variable.
41 . $(-20) \div w; w = 5$

41. $(-20) \div w; w = 5$	
42. <i>m</i> • 9; <i>m</i> = −3	
43. <i>x</i> + 32; <i>x</i> = −12	
44. <i>h</i> - (-4); <i>h</i> = -8	
Solve each equation.	
45. <i>p</i> + 17 = −2	
46. −4 <i>x</i> = −16	
47. <i>q</i> − 15 = −7	
48. $\frac{x}{3} = -9$	
49. $-\frac{z}{2} = -1$	
50. 8 <i>y</i> = −64	

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Instructor:	Time Frame: 80 minutes
Subject: Math Grade 6	Date:
	Computation with Fractions Assessment
Essential Question:	Get your portfolio and consider your responses to the Essential Questions over the last 8 assessments. Do you see value in these questions (other than sharpening your writing skills) or should your teacher create a different set for next year? (Explain)
Objective (s) Numbers: Outcomes:	1.01a, 1.01b, 1.03, 1.04b, 3.04, 5.02, 5.03 The student will develop number sense for negative rational numbers, connect the model, number word, and number using a variety of representations, including the number line; The student will develop number sense for negative rational numbers; The student will be able to compare and order rational numbers; The student will describe the effect of operations on size; The student will be able to solve problems involving geometric figures in the coordinate plane; The student will use and evaluate algebraic expressions; The student will be able to solve simple (one-and two-step) equations or inequalities.
Materials:	Cumulative Assessment (Form B)
Anticipatory Set:	Today we will assess our mastery of Integers.
	During the Lesson
Presentation of Information: Integration of Other Subjects: Integration of Reading: Integration of Technology:	Writing (evaluation) Reading (vocabulary, problem solving, analyzing expectation) Reading for information and interpretation. Computer, Projector, PowerPoint, Internet
Modeling:	Review the Practice Test, answer questions and model answers.
Differentiation:	504 modifications ET and RA. Additional student and teacher modeling will help to guide all students to reach expected outcomes.
Guided Practice:	Discuss the Instructions.
	After the Lesson
Independent Practice	Assign Cumulative Review Test Form B
Closure / Assessment:	Write a paragraph evaluation of your expected performance on this test. What did you do well on? What did you have trouble with? How did you prepare for this test and what would you like to do differently for the next exam?
	Choose a Journal entry to share with your class.
Reflection:	
Integration with School-wide For	cus: Improve mathematics computation and problem solving.
Related Math6.org Activities: Vocabulary Matching Practice Practice Test	There are many activities connected with this lesson

Integers Quiz Bowl Integers Millionaire

9 Form B				
Select the best an 1–50.	swer for questions	1 inch = 10 fe	wing, the scale is et. The length of a	
1. Simplify 4 ³ .			hes on the drawing.	
A 8	C 16	How long is the A 10 ft		
B 12	D 64	B 15 ft	D 25 ft	
2. Solve 42 + y =	= 86.	10 0	a contract of the set	
F <i>y</i> = 2.04	H <i>y</i> = 128	10. Suppose you b	eraniums, 9 of dahlia	
G $y = 44$	J <i>y</i> = 3612	and 5 of marig	olds. What was the nber of flats of dahlias	
3. What is the val	ue of -21 ?		of flats of pansies?	
A –21	C 1	F 3 to 4	H 5 to 12	
B 21	D 0	G 4 to 3	J 3 to 2	
4. What is 65% w	ritten as a decimal?	11. How many lines of symmetry does a		
F 65.0	H 0.65	rhombus have	?	
G 6.5	J 0.065	A 0	C 2	
		B 1	D 3	
5. Which fraction form?	is not in simplest			
	- 7		s reflected about the ordered pair names th	
A $\frac{1}{2}$	c $\frac{7}{8}$	reflected image	-	
B $\frac{7}{15}$	D $\frac{12}{15}$, i i i i i i i i i i i i i i i i i i i	H (-4, 3)	
15	15	G (-3, -4)		
6. Which number	is the greatest?			
F 123,456	H 122,984	13. Find 74% of 14	14 to the nearest tenth	
	J 132,645	A 106.6	C 76.4	
		B 63.4	D 121.4	
7. Evaluate the ex				
$3^2 \times (8 - 3) +$	8.	14. Which stateme		
A 53	C 23		H -12 > -17	
B 38	D 77	G $-8 < -12$	J −14 < 14	
8. Subtract -15 -	- (-12).	15. Solve <i>d</i> + 7 =		
F 3	H 27		C $d = -8$	
G –3	J –27	B $d = -2$	D $d = -16$	

_____ Date _____ Class

21. Solve 116 = 16*x*.

B x = 7.25

 $\mathbf{F} \angle BEA$

 $\mathbf{G} \angle CED$

A 112°

B 158°

A x = 7

Use the figure for exercises 22 and 23.

Ε

25. What is the prime factorization of 128?

22. Which angle is an obtuse angle?

23. If $m \angle AEB = 68^\circ$, what is the

measure of $\angle CEA$?

24. Solve 15.6 + w = 23.9.

F w = -8.3

G w = 8.3

C x = 132

H ∠BEC

J ∠BED

C 90° **D** 22°

H w = 39.5

J w = 372.84

C $2^3 \times 3 \times 5$

D $2^3 \times 6 \times 7$

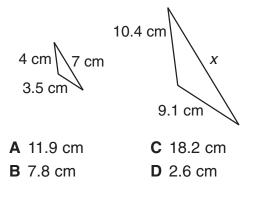
D x = 1.856

CHAPTER Cumulative Test 9 Form B, continued

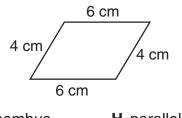
16. There were 20 people on a bus. At the first stop 2 people got off. At the second stop 3 people got off, and at the third stop 4 people got off the bus. How many people remained on the bus?

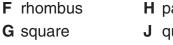
F 9 **H** 11 **G** 10 **J** 12

17. What is the missing side length on the similar figures shown?



18. What is the most exact name for the figure?





H parallelogram J quadrilateral

- 19. What is the LCM of 18 and 24? **A** 6 **C** 144
 - **B** 72 **D** 226

20.	. Multiply −9 • (−15).		
	F -135	Н	24
	G –24	J	135

B $2^4 \times 7$ 26. What is the mean of 14, 17, 13, and 22? **F** 22 **G** $15\frac{1}{2}$

A 2⁷

27. What is the median of 48, 12, 17, 16, 13, 15? **A** 20 C 15.5 **B** 15 **D** 17

H 17

J $16\frac{1}{2}$

Э	Class

CHAPTER Cumul	ative Test		
	continued		
• •	that extends without e directions is a H plane J line	sales tax is 5.8	sells for \$29 and the 5%. What is the total vie to the nearest C \$29.95
29. Divide –108 ÷	6	B \$27.40	D \$30.45
A 18	C 102		2 000110
B –18	D -102	36. Which lists the least to greate	e integers 4, −6, 2 from st?
30. Solve <i>x</i> – 18 =	= —17.		H -6, 2, 4
F $x = -35$	H <i>x</i> = 1	G -6, 4, 2	J 2, −6, 4
G <i>x</i> = 35	J <i>x</i> = 306	37. What is the red	ciprocal of $4\frac{3}{5}$?
31. Find the missir following propo	ng value in the ortion: $\frac{16}{5} = \frac{64}{x}$.	A $\frac{23}{5}$	c $4\frac{5}{3}$
A $x = 16$	• //	B $\frac{5}{23}$	D $\frac{8}{5}$
B <i>x</i> = 20	D <i>x</i> = 48	38. What is 546,00	00,023 in words?
3 feet long. A r casts a shadow is the telephon	et tall casts a shadow hearby telephone pole v 24 feet long. How tall e pole? H 24 ft J 50 ft	G five hundred three hundred H five hundred twenty-three	d forty-six thousand,
33. Which is NOT	a true statement?	twenty-three	
A 0.05 > 0.02 B 0.5875 > 0.4 C 0.63 > 0.63 D 32.4 > 32.1	546	of milk for \$2.7 \$2.29, and 3 p	o the store for his and purchased a gallon 79, a loaf of bread for ounds of bananas for nd. What was the total
34. Express $\frac{12}{25}$ as	a percent.	of Tristan's pur A \$5.57	rchases? C \$6.55
F 44%	H 25%	B \$6.32	D \$8.20
G 48%	J 60%	40. Which fraction	has the least value?
		F $\frac{3}{4}$	H $\frac{3}{5}$
		G $\frac{7}{8}$	J $\frac{2}{11}$

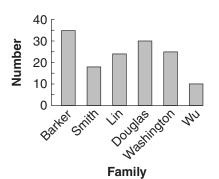
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CHAPTER Cumulative Test Form B, continued

Use the graph for problems 41 and 42.

Sabrina conducted a survey of families in the neighborhood to see how much "junk mail" each family received. The graph shows the number of pieces of junk mail that each family received in a week.

Junk Mail Received



41. Which family had the most junk mail?

		-	-
Α	Barker		C Douglas

- **B** Smith **D** Washington
- **42.** How many more pieces of junk mail did the Barker family receive than the **Douglas family?**

F	5	н	25
G	10	J	35

43. The Schmidt family must travel 450 miles to attend a wedding. On the first day, they traveled 275 miles. How many miles must they still travel?

A 725 mi	C 175 mi
B 200 mi	D 150 mi

44. Which number added to -12 gives the sum of +12?

F -12	H −24
G 12	1 24

45. There are 12 reams of paper in a case. What is the best approximation of the number of reams of paper in 32 cases?

A 40	C 300
B 100	D 600

Date Class

46. Divide $10\frac{1}{2} \div 2\frac{1}{3}$. _ 1 1

F
$$4\frac{1}{2}$$
 H $10\frac{1}{3}$
G $5\frac{1}{6}$ **J** $24\frac{1}{2}$

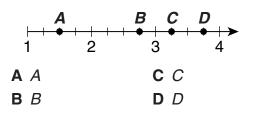
47. A taxi service is running a special to gain more customers. They are charging \$0.75 for the first 3 miles and \$0.15 for each additional mile. What is the cost of a 7-mile taxi ride?

A \$1.05	C \$1.65
B \$1.35	D \$1.80

48. Multiply 12.45 by 0.24.

F 2.988	H 29.88
G 1.988	J 34.58

49. Which point on the graph represents $2\frac{3}{4}$?



50. How many prime numbers are between 12 and 20?

F 2	H 4
G 3	J 5

Integers Assessment

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3	А
4	F
5	А
6	F
7	А
8	F
9	А
10	F
11	F A
12	F
13	А
14	F
15	А
16	F
17	А
18	F
19	F A
20	F
21	А
22	F
23	А
24	F
25	Α
26	F
27	А

28	F	G	Н	J
29	А	В	С	D
30	F	G	Н	J
31	А	В	С	D
32	F	G	Н	J
33	А	В	С	D
34	F	G	Н	J
35	А	В	С	D
36	F	G	Н	J
37	А	В	С	D
38	F	G	Н	J
39	А	В	С	D
40	F	G	Н	J
41	А	В	С	D
42	F	G	Н	J
43	А	В	С	D
44	F	G	Н	J
45	А	В	С	D
46	F	G	Н	J
47	А	В	С	D
48	F	G	Н	J
49	А	В	С	D
50	F	G	Н	J

1	А	В	С	D
2	F	G	Н	J
3	А	В	С	D
4	F	G	Н	J
5	А	В	С	D
6	F	G	Н	J
7	А	В	С	D
8	F	G	Н	J
9	А	В	С	D
10	F	G	Н	J
11	Α	В	С	D
12	F	G	Н	J
13	А	В	С	D
14	F	G	Н	J
15	А	В	С	D
16	F	G	Н	J
17	А	В	С	D
18	F	G	Н	J
19	А	В	С	D
20	F	G	Н	J
21	А	В	С	D
22	F	G	Н	J
23	Α	В	С	D
24	F	G	Н	J
25	А	В	С	D
26	F	G	Н	J
27	А	В	С	D

Name

Integers Assessment

F	G	Н	J
Α	В	С	D
F	G	Н	J
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F	G	Н	J
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F	G	Н	J
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F	G	Н	J
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А	В	С	D
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Integers Assessment

1	А	В	С	
2	F		Н	J
3	А		С	D
4	F	G		J
5	А	В	С	
6	F		Н	J
7		В	С	D
8	F		Н	J
9	А		С	D
10		G	Н	J
11	А	В		D
12		G	Н	J
13		В	С	D
14	F		Н	J
15	А	В	С	
16	F	G		J
17	А	В		D
18	F	G		J
19	А		С	D
20	F	G	Н	
21	А		С	D
22	F	G	Н	
23	А		С	D
24	F		Н	J
25		В	С	D
26	F	G	Н	
27	А	В		D

28	F	G	Н	
29	А		С	D
30	F	G		J
31	А		С	D
32	F		Н	J
33	А	В		D
34	F		Н	J
35		В	С	D
36	F	G		J
37	А		С	D
38	F	G	Н	
39	А	В		D
40	F	G	Н	
41		В	С	D
42		G	Н	J
43	А	В		D
44	F	G	Н	
45	А	В		D
46		G	Н	J
47	А		С	D
48		G	Н	J
49	А		С	D
50	F		Н	J

Chapter 9 Assessment

10 100%

9 90%

8 80%

7 70%

6 60%

5 50%

4 40%

3 30%

2 20%

1 10%

0 0%

	Math Assessment Scoring Rubric - Chapter		Math Assessment Scoring Rubric - Chapter
10%	Vocabulary 3 column notes	10%	Vocabulary 3 column notes
10%	Math Journal (2 entries - 1 presented)	10%	Math Journal (2 entries - 1 presented)
20%	Cumulative Assessment (curved)	20%	Cumulative Assessment (curved)
60%	Current Chapter Assessment Questions	60%	Current Chapter Assessment Questions
5%	Signed Math6.org Activity Sheet (Extra Credit)	5%	Signed Math6.org Activity Sheet (Extra Credit)
Student		Student _	
	_ Vocabulary 3 column notes		Vocabulary 3 column notes
	_ Math Journal (2 entries - 1 presented)		Math Journal (2 entries - 1 presented)
	Cumulative Assessment (curved)		Cumulative Assessment (curved)
	Current Chapter Assessment Questions		Current Chapter Assessment Questions
	Signed Math6.org Activity Sheet (Extra Credit)		Signed Math6.org Activity Sheet (Extra Credit)
	_ Total		Total
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	_ Total		Total