

Math 08 - Unit 2 Review ASSIGNMENT

Operations Involving Integers

It is assumed that you have completed the lessons and practice questions before attempting this assignment.

Name: _____

Preferred Contact: _____

Math communication is being assessed. Show all work.

Assessment:

Emerging (1)	Developing (2)	Proficient (3)	Extending (4)
The student demonstrates an initial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a partial understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a complete understanding of the concepts and competencies relevant to the expected learning.	The student demonstrates a sophisticated understanding of the concepts and competencies relevant to the expected learning.
Overview of curricular competency topics assessed in the assignments:			
<ul style="list-style-type: none"> ● Understanding and application of math concepts and strategies. 			
<ul style="list-style-type: none"> ● Connecting and applying math concepts to each other and other ideas. 			
<ul style="list-style-type: none"> ● Modelling and representing problems symbolically, pictorially, graphically. 			
<ul style="list-style-type: none"> ● Communication of math thinking, ideas, language, and appropriate representation of info. 			

1. Identify the number category that each of the following numbers belong to by marking an "X" in the appropriate box.

	Number	Natural Numbers	Whole Numbers	Integers
1	-543			
2	132			
3	0			
4	2217			
5	-14,000			

2. Solve the following.

a. $6 + (-2) = \underline{\hspace{2cm}}$

b. $(-7) + 10 = \underline{\hspace{2cm}}$

c. $17 + (-9) = \underline{\hspace{2cm}}$

d. $(-4) + (-5) = \underline{\hspace{2cm}}$

e. $8 + (-3) + 7 = \underline{\hspace{2cm}}$

f. $(-6) + 3 + (-2) = \underline{\hspace{2cm}}$

g. $5 - 9 = \underline{\hspace{2cm}}$

h. $-9 - (-10) = \underline{\hspace{2cm}}$

i. $0 - (-7) = \underline{\hspace{2cm}}$

j. $-3 - 3 = \underline{\hspace{2cm}}$

k. $8 - (-8) = \underline{\hspace{2cm}}$

l. $(-6) + 3 - (-2) = \underline{\hspace{2cm}}$

3. Solve the following.

a. $(-4) \times 6 = \underline{\hspace{2cm}}$

b. $(-11) \times (-2) = \underline{\hspace{2cm}}$

c. $(-3) \times (+5) \times 4 = \underline{\hspace{2cm}}$

d. $(-2) \times (-4) \times (-5) = \underline{\hspace{2cm}}$

e. $(-27) \div (-9) = \underline{\hspace{2cm}}$

f. $(-104) \div 13 = \underline{\hspace{2cm}}$

4. Find the pair of integers whose

a. Sum is 5 and product is -14 . _____

b. Difference is -4 and product is -21 . _____

5. Simplify the following.

a. $\frac{(-10)(12)}{(4)} =$

b. $\frac{(-22)(-9)}{(-11)(-3)} =$

c. $\frac{(-4)(-20)}{(-16)} =$

d. $\frac{(-2)(-8)(-5)(-9)}{(-4)(-3)(-10)} =$

e. $\frac{(-2)(-16)(-30)}{(-6)(-4)(-5)} =$

f. $\frac{(-8)(-9)(-6)(0)}{(-2)(-4)(-3)} =$

6. Farrokh reported that the coldest day on record for his town was five times colder than yesterday's temperature, -3°C . What was the temperature of the coldest day on record in Felix's town?

7. At 6:00 pm the temperature was 12°C . If the temperature drops 3°C per hour, what was the temperature at 11:00 pm?

8. Solve each expression using the correct order of operations.

a. $6 + 15 \div 3 =$

b. $5 + 6 \times 6 =$

c. $9 \div (4 - 1) =$

d. $(-1) - [(-16) \div 8] - 4(-1) =$

e. $(-4) + 5 - 9 - [(-1) - (-5)] - 6 =$

f. $10 \times (-5) + (-6)^2 =$

g. $(-3)^3 - (-8) \times [5 + 6 \div (-3)] =$

h. $[(-4)^3 - (-5)] \times [(-6) \div [5 + (-7)]^2] =$

i. $\{(-2)^2 \times [3 - (-6) + (-9)]^2\} \div 7 =$