

Assignment: Operations of Integers

Due Monday 1/27

Part I: Rules of Integers

1.) Write the 3 rules for adding and subtracting integers in your own words and provide an example that demonstrates each rule.

<p>Rule:</p> <hr/> <hr/> <hr/> <hr/>	<p>Example:</p>
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<p>Rule:</p> <hr/> <hr/> <hr/> <hr/>	<p>Example:</p>

2.) Write the 2 rules for multiplying and dividing integers in your own words and provide an example that demonstrates each rule.

<p>Rule:</p> <hr/> <hr/> <hr/> <hr/>	<p>Example:</p>
<p>Rule:</p> <hr/> <hr/> <hr/> <hr/>	<p>Example:</p>

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Part II: Operations of Integers

Order the integers from least to greatest: -15, 5, -10, 1, 0, -5, -23

_____, _____, _____, _____, _____, _____, _____

Perform the given operations of integers.**Adding Integers**

1) $85 + (-96) = \underline{\hspace{2cm}}$ 2) $80 + 57 = \underline{\hspace{2cm}}$ 3) $86 + (-38) = \underline{\hspace{2cm}}$ 4) $22 + (-41) = \underline{\hspace{2cm}}$

5) $-18 + (-45) = \underline{\hspace{2cm}}$ 6) $-32 + 48 = \underline{\hspace{2cm}}$ 7) $6 + (-33) = \underline{\hspace{2cm}}$ 8) $6 + (-47) = \underline{\hspace{2cm}}$

9) $(-78) + 69 = \underline{\hspace{2cm}}$ 10) $-72 + (-30) + 10 = \underline{\hspace{2cm}}$ 11) $-83 + (-36) + 20 = \underline{\hspace{2cm}}$

Subtracting Integers

1) $1 - 3 = \underline{\hspace{2cm}}$ 2) $2 - (-5) = \underline{\hspace{2cm}}$ 3) $6 - (-9) = \underline{\hspace{2cm}}$ 4) $-7 - (-1) = \underline{\hspace{2cm}}$ 5) $-7 - 4 = \underline{\hspace{2cm}}$

6) $3 - (-2) = \underline{\hspace{2cm}}$ 7) $-1 - 9 = \underline{\hspace{2cm}}$ 8) $2 - 9 = \underline{\hspace{2cm}}$ 9) $-8 - (-1) = \underline{\hspace{2cm}}$

Multiplying Integers

1) $(-4)(-12) = \underline{\hspace{2cm}}$ 2) $-8 \times (-8) = \underline{\hspace{2cm}}$ 3) $(-8)(-10) = \underline{\hspace{2cm}}$ 4) $5 \times 1 = \underline{\hspace{2cm}}$ 5) $(-10)(11) = \underline{\hspace{2cm}}$

6) $(-3)(-8) = \underline{\hspace{2cm}}$ 7) $-2 \times 6 = \underline{\hspace{2cm}}$ 8) $7(-12) = \underline{\hspace{2cm}}$ 9) $4 \times (-10) = \underline{\hspace{2cm}}$

10) $(-9)(-6)(2) = \underline{\hspace{2cm}}$ 11) $(-10)(-7)(-4) = \underline{\hspace{2cm}}$

Dividing Integers

1) $-48 \div 6 = \underline{\hspace{2cm}}$ 2) $-81 \div (-9) = \underline{\hspace{2cm}}$ 3) $-18 \div (-6) = \underline{\hspace{2cm}}$ 4) $25 \div (-5) = \underline{\hspace{2cm}}$ 5) $-10 \div 2 = \underline{\hspace{2cm}}$

6) $-35 \div (-5) = \underline{\hspace{2cm}}$ 7) $-42 \div 6 = \underline{\hspace{2cm}}$ 8) $-70 \div (-7) = \underline{\hspace{2cm}}$ 9) $-16 \div (-8) = \underline{\hspace{2cm}}$

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Part III: Word Problems

1.) Ms. Fitz is playing Jeopardy against Mr. Tapia. Mr. Tapia incorrectly answers questions with 40 points five times in a row. What is his score so far?

2.) In Alaska, the temperature can get cold really quickly. Yesterday, the temperature dropped 3 degrees for 9 hours straight. What is the total temperature change during the 9 hours?

3.) Mr. De La Cruz said that his car was worth \$30,000 when it was purchased. However, over the last 3 years it has decreased in value \$5400. What integer represents the average decrease in value per year?

4.) Wendell Mitchell opens a credit account to purchase a new PS5. He makes a down payment of \$50 on a \$500.00 game console. What is his financial situation?

5.) An airplane started at 0 feet. It rose 21,000 feet at takeoff. It then descended 4,329 feet because of clouds. An oncoming plane was approaching, so it rose 6,333 feet. After the oncoming plane passed, it descended 8,453 feet, at what altitude was the plane flying?