| Name | Date | Class |
|------|------|-------|
|      |      |       |

## **Math 7 Review of Integers Assignment**

| 1. Write the | integer modelle | d by each s | set of tiles. | R is negative | and <b>Y</b> is |
|--------------|-----------------|-------------|---------------|---------------|-----------------|
| positive.    |                 |             |               |               |                 |

a) Y Y Y Y

 $\mathbb{R} \mathbb{R} \mathbb{R}$ 

- b) Y Y Y
  - RRRRRRRR
- c) Y Y Y Y RRRR
- f) Y Y Y Y Y
  - RR

- a) 5 yellow tiles and 13 red tiles
- b) 28 yellow tiles and 24 red tiles

- **3.** Use integer tiles (+, -) to model each sum: Find each sum:

  - **a)** (+6) + (-12) = **b)** (-10) + (-4) = **c)** (-13) + (+5) = \_\_\_\_\_

- **4.** Represent each sentence with integers, and then find each sum. What does the sum represent?
  - a) The elevation of the base of the building is 345 m above sea level. The building is 50 m high.

b) The elevation of the base of the building is 75 m below sea level. The building is 15 m high.

**5.** Complete each magic square. Calculate the magic sum.

| a | ) |
|---|---|
|   | • |

| <b>-</b> 7 |    |            | +8 |
|------------|----|------------|----|
|            | +6 | <b>-</b> 5 | -3 |
|            | -1 | +2         |    |
|            | +3 |            | +1 |

Magic Sum = \_\_\_\_\_

**6.** Use a number line to find each sum. Show your work on a number line.

**a)** 
$$(+3) + (-4) =$$
 **b)**  $(+5) + (-6) =$ 

- 7. Write an addition statement for each situation. Find the sum. What does the sum represent? Use a sentence to answer the question.
  - a) The temperature in Victoria was +15°C in the afternoon. By midnight, the temperature had dropped 8°C.

**b)** The temperature in Calgary was –10°C. A Chinook caused the temperature to rise 12°C.

**8.** Add the following integers using any method.

**a)** 
$$(+5) + (-12) + (-4) =$$
 **b)**  $(-7) + (+15) + (-12) =$ 

**9.** Use +, - tiles to subtract. Show your work.

**b)** 
$$(-9) - (-5) =$$

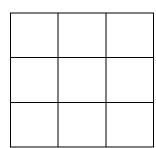
**d)** 
$$(-3) - (-8) =$$

**10.** What do you subtract from each integer to get the answer +4?

11. What do you subtract from each integer to get the answer -4?

12. Complete the magic square for a magic sum of 0. Subtract (-2) from each entry and record it in the empty box. Is it still a magic square? \_\_\_\_

| -1 |    | -3 |
|----|----|----|
|    |    | +2 |
| +3 | -4 |    |



**13.** Subtract the following using any method. Give the answer only.

**a)** 
$$(-5) - (-4) =$$

**a)** 
$$(-5) - (-4) =$$
 **b)**  $(-6) - (+3) =$  **c)**  $(+8) - (+12) =$  \_\_\_\_\_

**d)** 
$$(+7) - (+2) =$$

**d)** 
$$(+7) - (+2) =$$
 **e)**  $(-3) - (+5) =$  **f)**  $(-7) - (-8) =$ 

| 14. Write a subtraction statement to find the difference between the following:   |
|---|
| a) Mount Everest, Nepal, at 8850 m above sea level and Java Trench, Indian<br>Ocean, 7125 m below sea level.                  |
| <b>b)</b> Puerto Rico Trench, Atlantic Ocean at 8648 m below sea level and Java Trench, Indian Ocean, 7125 m below sea level. |
| c) An airplane cruising at an altitude of 3500 m and a submarine at a depth 975 m.  |
| d) A kite at an altitude of 112 m and a bird at an altitude of 145 m.   |
|   |
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