

**Math 7 Review of Integers Assignment**

1. Write the integer modelled by each set of tiles. **R is negative** and **Y is positive**.

a)  $\begin{array}{cccc} \boxed{Y} & \boxed{Y} & \boxed{Y} & \boxed{Y} \\ \boxed{R} & \boxed{R} & \boxed{R} & \end{array}$  \_\_\_\_\_

b)  $\begin{array}{ccccc} \boxed{Y} & \boxed{Y} & \boxed{Y} & & \\ \boxed{R} & \boxed{R} & \boxed{R} & \boxed{R} & \boxed{R} & \boxed{R} & \boxed{R} & \boxed{R} \end{array}$  \_\_\_\_\_

c)  $\begin{array}{cccc} \boxed{Y} & \boxed{Y} & \boxed{Y} & \boxed{Y} \\ \boxed{R} & \boxed{R} & \boxed{R} & \boxed{R} \end{array}$  \_\_\_\_\_

f)  $\begin{array}{ccccc} \boxed{Y} & \boxed{Y} & \boxed{Y} & \boxed{Y} & \boxed{Y} \\ \boxed{R} & \boxed{R} & & & \end{array}$  \_\_\_\_\_

2. Which integer is modeled by each set of tiles?

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)

-7			+8
	+6	-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)  $(+5) + (-6) =$  \_\_\_\_\_

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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  $+15^{\circ}\text{C}$  in the afternoon.  
By midnight, the temperature had dropped  $8^{\circ}\text{C}$ .

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b) The temperature in Calgary was  $-10^{\circ}\text{C}$ .  
A Chinook caused the temperature to rise  $12^{\circ}\text{C}$ .

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8. Add the following integers using any method.

a)  $(+5) + (-12) + (-4) =$  \_\_\_\_\_

b)  $(-7) + (+15) + (-12) =$  \_\_\_\_\_

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

a)  $(+7) - (+4) = \underline{\hspace{2cm}}$

b)  $(-9) - (-5) = \underline{\hspace{2cm}}$

c)  $(+8) - (+12) = \underline{\hspace{2cm}}$

d)  $(-3) - (-8) = \underline{\hspace{2cm}}$

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

a)  $+6 - \underline{\hspace{2cm}} = +4$

b)  $-3 - \underline{\hspace{2cm}} = +4$

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

a)  $+6 - \underline{\hspace{2cm}} = -4$

b)  $-3 - \underline{\hspace{2cm}} = -4$

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)  $(-5) - (-4) = \underline{\hspace{2cm}}$     b)  $(-6) - (+3) = \underline{\hspace{2cm}}$     c)  $(+8) - (+12) = \underline{\hspace{2cm}}$

d)  $(+7) - (+2) = \underline{\hspace{2cm}}$     e)  $(-3) - (+5) = \underline{\hspace{2cm}}$     f)  $(-7) - (-8) = \underline{\hspace{2cm}}$

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 Ocean, 7125 m below sea level.

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b) Puerto Rico Trench, Atlantic Ocean at 8648 m below sea level and Java Trench, Indian Ocean, 7125 m below sea level.

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c) An airplane cruising at an altitude of 3500 m and a submarine at a depth 975 m.

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d) A kite at an altitude of 112 m and a bird at an altitude of 145 m.

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