

**Grade 7 Math: Real Numbers: Worksheet 1**

1. Draw a number line to represent each of the following:

(a) integers  $\geq -2$  but  $< 3$

(b) natural numbers  $\geq -3$  but  $\leq 4$

(c) positive integers  $< 7$

2. Complete the following sequences:

(a) 4, 0, -4, -8, \_\_\_\_\_, \_\_\_\_\_

(b) -7, 3, 13, \_\_\_\_\_, \_\_\_\_\_

(c)  $\frac{1}{2}, \frac{1}{4}, 0, \_\_\_\_\_, \_\_\_\_\_$

3. If 10km south is indicated by  $-10$ , how would you indicate 10km north?

4. If  $+100$  indicate a profit of \$100, how would a loss of \$91 be indicated?

5. If a deposit of \$600 is represented by  $+600$ , how would you represent a withdrawal of \$60?

6. If 5 flights down is represented by  $-5$ , how would you represent 14 flights up?

7. An airplane descended 150m from an altitude of 650m and then ascended 830m immediately. At what altitude was the airplane flying?

8. Beginning with a temperature of  $24^{\circ}\text{C}$ , the temperature rises by  $8^{\circ}\text{C}$ , then drops by  $14^{\circ}\text{C}$  and finally rises by  $2^{\circ}\text{C}$ . What is the temperature after the above changes?