

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Math 7 Blizzard Bag #1

**Directions:** Read each question carefully. You must show your work for each to receive full credit.

#### Rational Numbers

Write each number as  $\frac{m}{n}$  in simplest form, where  $m$  and  $n$  are integers with  $n \neq 0$ .

1.  $-0.87$

2.  $12.8$

3.  $-1.9$

Write each fraction as a terminating or repeating decimal using long division.

4.  $\frac{9}{5}$

5.  $\frac{23}{16}$

6.  $-\frac{51}{110}$

#### Rational Number Operations

Evaluate each expression.

7.  $7 + (-12)$

10.  $43 + (-95) - (-16)$

13.  $2\frac{2}{5} \times (-1\frac{1}{4})$

8.  $-15 + (-20)$

11.  $-12 \times 8$

14.  $-\frac{7}{16} \div (-\frac{21}{6})$

9.  $32 - (-17)$

12.  $\frac{2}{15} \times (-\frac{5}{8})$

15.  $-\frac{3}{4} \div 2\frac{1}{4}$

16. In a particular town, the temperature at midnight is  $-2^{\circ}\text{C}$ . It rises at a steady rate for 12 hours to reach a temperature of  $22^{\circ}\text{C}$  at noon. Find the difference between the temperature at noon and at midnight. Then, find the temperature at 7 A.M.