

Name: _____

Date: _____ Period: _____

Math 7 Blizzard Bag #2

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

Algebraic Expressions

Simplify each expression.

1. $3.9p + 0.9p - 1.8p$

2. $\frac{8}{3}x - \frac{3}{5}y + \frac{2}{5}x + \frac{7}{4}y$

Expand and simplify each expression.

3. $-0.2(0.8q - 4)$

5. $5\left(\frac{1}{15}x - 6y\right) - \frac{1}{3}x$

4. $-\frac{2}{3}\left(-\frac{3}{4}y - \frac{1}{2}\right)$

6. $2(m - n) - 6(n - 2m)$

Factor each expression.

7. $-4k - 36$

8. $9 + 15m - 21n$

Translate each verbal description into an algebraic expression. Simplify the expression when needed.

9. 50% of one-twentieth of the product of 12 and $5z + 5$.

10. 21 plus $6p$ minus two-thirds times the quantity $14p$ plus $3q$.