



Term 2 Practice

SEC 1 MATH



Answer **all** the questions.

1. Simplify the following.

a) $9 \times (-x)$

b) $b \times b \times 5$

c) $5x \times (-3y)$

2. Simplify the following algebraic expression:

a) $12y + 3y - 9y$

b) $3b - 2b - 8b + 3$

c) $4x + 3y - 2x - y$

d) $-3x + 5y + 4x - y$

e) $a - 5b - 2 + 6a + 3b - 9$



3. Expand and simplify the following:

a) $3(2x + y) + 6(4x + y)$

b) $-3(2x - 5y) + 2(4y - 3x)$

c) $4(3x + y) - 6(2x + 7y)$

d) $5a(2x + 3y) - 3a(3x + 2y)$

e) $4p(q - 9r) - q(3r - p)$



4. Simplify the following:

a) $\frac{2p+q}{8} - \frac{2p+5q}{16}$

b) $\frac{4b-3c}{7} - \frac{3c-2b}{5}$

c) $\frac{z+7x}{3} - \frac{2x-3z}{5}$

d) $\frac{1}{3}(3p + 2q) - \frac{1}{2}(q - 2p)$



5. Solve the following equations.

a) $4x + 7 = 11$

b) $2 + \frac{2}{5}z = 8$

6. Solve the following equations.

a) $9r + 2 = 5 - 6r$

b) $8 + 2p = 5 - 2p$

c) $\frac{x}{2} + x = 6$

