

## UNIT 12 – ALGEBRA

1. (a)  $10y - 3y + 2z$

(b)  $4w + w - 2z$

(c)  $4a \times b \times c$

2. Simplify in its simplest form:  $\frac{6a}{8b}$

3. Simplify:  $8m - 6n + 2m + 5n$ .

4. Find the value of A if  $A = 2(l - b)$ , when  $l = 8$  and  $b = 5$ .

5. If  $a = 12$  and  $b = 8$ . Find the value of  $a + b$ .

6. Evaluate  $2p - 2q$ , if  $p = 7$  and  $q = 4$ .

7. Evaluate:  $3x + 4y$ , if  $x = 3$  and  $y = 4$ .

8. Evaluate:  $3p - 4q$ , if  $p = 5$  and  $q = 3$ .

9. If  $a = 7$  and  $b = 5$ , find the value of:  $2a - b$ .
10. If  $b = 5$ ,  $c = 4$  and  $d = 5$ , find the value of  $d(bc)$ .
11. If  $x + 10 = 45$ , what is the value of  $x$ ?
12. What is the value of  $p$  in the equation:  $5p + 7 = 37$ .
13. Find the value of  $y$ .  $6y + 7 = 49$ .
14. Solve the following equation:  $7y + 3 = 52$ .
15. What is the value of  $p$  in:  $7p + 9 = 65$ .
16. Solve the equation:  $6y - 8 = 28$ .
17. solve the equation:  $3m + 4 = 40$ .
18. Find the value of  $q$  in the equation:  $4q - 6 = 42$ .
19. Solve the following equation:  $2y + 5 = 15$ .
20. Solve:  $7y - 3 = 25$ .