QUESTION 2 Circle the like terms.

a $3b, 5a, 9a$ _____ **b** $4x, 5y, 6x$ _____ **c** $9x, 3a, 5x$ _____

d $9a, 3d, 6a$ _____ **e** $8y, 3a, 3y$ _____ **f** $3l, 5m, 5l$ _____

g $3d, 2c, 5c$ _____ **h** $9, 8x, 5x$ _____ **i** $10y, y, x$ _____

QUESTION 1 Collect like terms to simplify the following.

a $x + x + x + y + y =$ _____ **b** $m + m + m + m + n + n + n =$ _____

c $a + a + a + a + a + b =$ _____ **d** $l + l + l + m + m + m =$ _____

e $e + e + f + f + f + f + f =$ _____ **f** $u + u + u + v + v + v + v + v =$ _____

QUESTION 1 Add the following expressions.

a $3x + 8x =$ _____ **b** $5x + 11x =$ _____

c $9x + 7x =$ _____ **d** $18x + 9x =$ _____

e $16x + 25x =$ _____ **f** $30x + 14x + x =$ _____

QUESTION 2 Subtract the following expressions.

a $6a - 2a =$ _____ **b** $15a - 7a =$ _____

c $8a - 3a =$ _____ **d** $17x - 2x =$ _____

e $14m - 6m - m =$ _____ **f** $8y - 3y - y =$ _____

QUESTION 4 Simplify the following expressions.

a $8a + 5 + 7a + 9 =$ _____ **b** $16 - 3a + 7 =$ _____ **c** $8x^2 + 9x - x^2 =$ _____

d $9xy \times 6y =$ _____ **e** $4 \times 5x \times 3y =$ _____ **f** $-5x \times -6x =$ _____

g $8ab + 7ab - 3ba =$ _____ **h** $5x - 9x + x =$ _____ **i** $(-3x) \times (-6y) =$ _____

QUESTION 5 Simplify.

a $3 \times (2a + 4a) =$ _____ **b** $5 \times (8x - 5x) =$ _____ **c** $-3 \times (7a - 3a) =$ _____

d $(5a + 3a) \times 2 =$ _____ **e** $(9x + 7x) \times 2x =$ _____ **f** $(12a - 10a) \times 3b =$ _____

g $8p + 3 \times 7p =$ _____ **h** $5x \times 6y \div 3y =$ _____ **i** $18p - 3 \times 2p =$ _____

QUESTION 4 Simplify the following.

a $9x + 3y - 6x + 2y =$ _____

b $20a + 3b + 8b - 11a =$ _____

c $6m + 3n - n - m =$ _____

d $6x^2 - 4x^2 - x^2 + 3x^2 =$ _____

e $8a + 3b + 2b - 6a =$ _____

f $10a + 4a - 5b - b =$ _____

QUESTION 6 Collect like terms and simplify.

a $ab + bc - ab - bc + ac =$ _____

b $9a^2b - 5ab^2 - 3ab^2 + 2a^2b =$ _____

c $9x^2 + 10x^2 - 3x^2 =$ _____

d $19xyz + 6y + 4xyz - 5y =$ _____

e $18xyz + 15xyz - 4xy =$ _____

f $36a^2 + 15b^2 - 14a^2 =$ _____

g $8x^2y^2 + 9x + 4x^2y^2 + 6x =$ _____

h $9a^3 + 8a^3 - 3b^3 + 6b^3 =$ _____