

Algebra and Solving Equations Check Up

$$12b - 2a + 5a - 10 + b + 12$$

Q1.

Simplify:

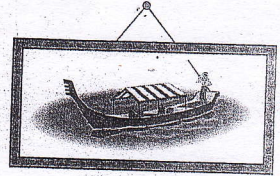
a $5m + 7 + 2n - 3m + n$

b $12b - 2a + 5a - 10 + b + 12$

Q2.

The total length of this frame is 154 cm.

- a Form an equation and solve it.
 b Give the dimensions of the frame.



3x cm

$(5x - 3)$ cm

Q3

Solve these equations:

a $4x = x + 9$

b $3m = 2m + 4$

c $5t = 18 - t$

Q4

Solve these equations:

a $5n - 2 = n + 6$

b $12 + 3y = 27 - 2y$

c $6 - k = 2k - 15$

Q5

Solve these equations:

a $3(m - 2) = 9$

b $5(x - 2) - 2x = 2$

c $8 - 2(y - 1) = 2$

d $4n = 1 - 3(n + 5)$

Q6.

Solve the following inequations:

a) $3c \geq 2c - 15$

b) ~~$4x - 6 \leq 4$~~

c) $3 + 7g \geq 5g - 8$

$$4x - 6 \leq 4$$

Q7.

If $k = 2$, $t = 3$ and $w = 5$ evaluate:

a $(2t - k)^2$

b $w(t + k)$