

Basic Algebra and Linear Equations - Section Test

- 1) The expression $(2x - 5)(x + 3)$ is equivalent to

$x^2 + x -$

Please answer all parts of the question.

- 2) A football club has played 15 matches so far this season. They score 3 points for a win, 1 point for a draw and 0 points for a loss. They have lost 4 matches, and their points score is 27. How many matches have they won?

- 3) In a sale, a coat priced at £150 is reduced by 55%. What is the new price of the coat?

- 4) Solve $1 - x = 5x - 3$

Give your answer in its simplest form as a fraction $\frac{a}{b}$, where a and b are integers.

(a):

(b):

- 5) The expression $3(2x + 3y - 1) - 2(3x - 2y - 4)$ can be simplified to give the expression

- 6) The expression $2x + 3y - x + 5y + 4x$ can be simplified to give the expression

$x +$ y

- 7)

Solve $1 - 2(y + 3) = 5(2 - y)$

- 8) Work out $\left(4\frac{1}{4} - 2\frac{2}{3}\right) \div 1\frac{1}{6}$

Select one:

- ☐ $1\frac{13}{14}$
- ☐ $1\frac{27}{28}$
- ☐ $1\frac{5}{14}$
- ☐ $-\frac{3}{2}$

- 9) Solve $3x + 2 = x - 5$

- 10) Solve $\frac{a-2}{3} = \frac{1-a}{2}$ Give you answer as an exact decimal