

Sangam S.K.M College Nadi

Year 11

Applied- Mathematics

Worksheet 5

Questions:

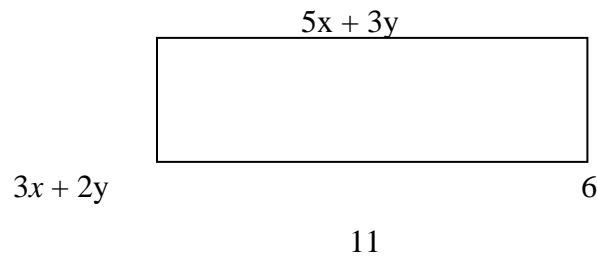
1. a) Solve the following pairs of equation simultaneously

$$3y - 2x = 14$$

$$4y + x = 14$$

b) If $3p - 2q = 4$ and $7p - 3q = 1$, then find the value of $4p - 5q$

c) Find the value of x and y in the rectangle given:



2. a) Solve $x^2 + 6x + 5 = 0$

b) Simplify completely $\frac{4x - 24}{x^2 - 36}$

c) Expand and simplify $3(2x + 3)(x - 1) + 4x(5 - x)$

3. Which is a better investment?

Option A: \$2400 invested for 2 years with a compound interest of 6% each year

OR

Option B: \$2400 invested for 2 years with a simple interest of 8% per year?