K Education Centre

KS3 Mathematics Equations

Equation Assignment

Assignment Questions

Q1: Solve the following equations:

    a) x/3 = 7/5

    b) 5 (y + 3) – 3 (y+5) = 8

    c) 6 (y-9) = 5 (y-7)

    d) $\dfrac{7}{3y}$ + 2 = 14

    e) (Y-6)/4 = (4y + 6) /5

Q2: Solve the equation:

    $(2y-6)^2 – 4y (4y – 5) = 15 – 4y$

Q3: Simplify

$a)\ \dfrac{Y+4}{6} + \dfrac{Y+5}{4}$

b) $\dfrac{a+4}{6} - \dfrac{a+3}{2}$

c) $\dfrac{a}{4b} \div \dfrac{5}{4b}$

Q4 : Solve the following simultaneous equations :

    a) 4a – 2b = 6

       5a + 4b = 6

    b) 2y – 4c = 4

       6y – 2c = 14

Q5 : Tommy buys five adult tickets and four children tickets for the car show and pays £68. Tommy buys three adult tickets and three children and pays £42.

Find the price of:

  a) One adult ticket.

  b) One children ticket.

  c) Seven adult tickets and one child's ticket.