

MATHEMATICS HOLIDAY ASSIGNMENT FOR SS 1

1. List out the series of steps involved in carrying out a factorisation operation
 - b. Factorise the following quadratic expressions
$$2h^2 + 5h + 3$$
Indicating each step taken
2. Find the roots of the quadratic equation
$$2x^2 + 11x + 14 = 0$$
 - b. Factorise completely
$$400 + 120r + 9r^2$$
3. What is percentage error?
 - b. A sack which weighs 60.5kg is recorded to have weighed 62.65kg. Find the percentage error
4. Solve the pairs of equations graphically
$$y = 4x^2 + 3x - 3$$
 for values of x from -3 to 3
5. A number is such that 4 times the number is 27 less than 7 times the number. Find the number.