



KEC

K Education Centre



KS3 Mathematics Year 7

Algebra Assignment 3

Assignment Questions

©KEducationCentre
Year 2020

Algebra

Q1 : Work out following expressions If $a = 1$ $b = 2$ and $c = 3$

- a) $2a - 4b + c$
- b) $a^3 + b^3 + c^3$
- c) $5(a + 3b + 4c)$
- d) $\frac{1}{2}(2a + 5b + 6c)$
- e) $4a + \frac{18}{c}$

Q2: Expand the following :

- a) $y(y + 6)$
- b) $x^2(x - 2)$
- c) $y^3(y^2 + y + 4)$
- d) $5y(y - 6)$
- e) $2y(y + 8)$
- f) $6r(r^2 + 2)$

Q3 : Tom takes eight minutes to make a toy. It takes him T minutes to make n toys. Write down the formula for T in terms of n .

Q4 : In a science test paper there are three sections. Each correct answer in section A is worth 1 marks, in section B each correct answer worth 2 marks and in section C each correct answer worth 3 marks.

Charlie takes the test and gets p questions right in section A , q question right in section B and r question right in section C .

- a) Write down an formula for Charlie's total marks T in terms of p , q and r
- b) Work out the total marks T if $p = 5$, $q = 8$ and $r = 4$

Q 5 : The cost of one bag of sugar is £5 , Billy buys 16 bags . He uses this formula :

$$\text{Total cost} = \text{cost of one bag} \times \text{number of bags.}$$

Find the total price Billy pays for the bags.