Name :

Teacher :

Official Homework - Algebra

Created by Mr Lafferty
St. Ninian's High School

This homework covers topics   Score

Basic Number Operations ☐   Substitution ☐   33

Like terms ☐   Factorising ☐

Breaking Brackets ☐   Context Question ☐

Teacher Comments :

Pupil's Comment :

1. Carry out the following instructions.   (NON - CALCULATOR QUESTION)

(a)   11   -   3.3   +   3.38   Working :

   Answer :

(b)   46.1   ×   8   Working :

   Answer :

(c)   4000   ÷   800   Working :

   Answer :

(d) $\dfrac{4}{5}$ of   20   Working :

   Answer :   (5 marks)

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2. Simplify the following expressions

(a)   4 g   ×   9 g   ×   6 g   (b)   -9x - 6 - 7x - 4

                  (2 marks)   (2 marks)

3. Multiply out the brackets and simplify.

(c)   4 (6w + 6)   (d)   -7 (6k - 2) + 6k

                  (2 marks)   (2 marks)

(e)   5 (4q - 1) + 5 (3q - 1)   (f)   2v - 7 (7v - 5) + 3 (7v - 4)

                  (3 marks)   (3 marks)

4. For r = -2 , s = 5 , t = -8 and u = 10   Calculate :-

(a)   r s - t u

(3 marks)

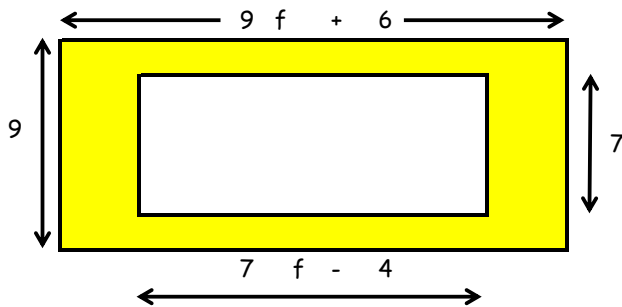(b) r^2 + t^2 - su

(3 marks)

5. Factorise the following :-

(a)   16w - 16

(2 marks)

(b)   45 i^2 - 15 i

(2 marks)

6. Find the area of the shaded in its simplest form.

9 f + 6

9

7

7 f - 4

(4 marks)

Total marks 33