

Name :

Teacher :

## Equations National 5 Homework

Created by Mr Lafferty  
St. Ninian's High School

This homework covers topics

Score

Basic Number Operations

Context Question

Letters both sides

Equations with Fractions

Equations with Brackets

Inequations

35

Teacher Comments :

Pupil's Comment :

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

(a)  $14 - 4.8 + 3.59$

Answer :

Working :

Working :

(b)  $48.9 \times 7$

Answer :

(c)  $1720 \div 400$

Answer :

(d)  $\frac{4}{5}$  of 400

Answer :

Working :

( 5 marks )

2. Solve the following equations.

(a)  $6b - 8 = 2b + 8$

Answer

$b =$

( 3 marks )

(b)  $3w - 10 = 5w + 16$

Answer

$w =$

( 4 marks )

3. Solve the equations below.

(a)  $4(3y + 9) = 72$

Answer

$y =$

( 3 marks )

(b)  $2(5b + 6) - 2b = 28$

Answer

$b =$

( 4 marks )

4. Roisin had 5 packets of sweets and 2 loose sweets. Hannah had 3 packets and 10 loose sweets. They discovered that they had exactly the same number of sweets.

- (a) Make up an equation to show this information.  
 (Hint : Let  $s$  be the number of sweets in 1 packet)

Answer :  ( 2 marks )

- (b) Solve the equation to determine how many sweets there are in each packet. ( 3 marks )

Answer  $s =$  

5. Solve the algebraic equations below :-

(a)  $\frac{1}{4} w + 6 = 13$

Answer  $w =$   ( 2 marks )

(b)  $\frac{a + 35}{5} - 7 = 3$

Answer  $a =$   ( 3 marks )

6. Solve the inequations.

(a)  $3(3y + 2) < 51$

Answer  $y < \blacksquare$  (3 marks)

(b)  $3(3h + 1) > 3h + 39$

Answer  $h > \blacksquare$  (3 marks)

Total marks 35