

Name :

Teacher :

General Official Homework 6

Created by Mr Lafferty
St. Ninian's High School

This homework covers topics

Score

Basic Number Operations

Algebraic Equations

21

Distance Speed Time

Perimeter

Percentage & Money

Trigonometry

Teacher Comments :

Pupil's Comment :

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

(a) $946.1 - 493$

Working :

(b) 29.3×30

Working :

(c) $371.7 \div 7$

Working :

(d) 50 % of 84

Working :

(5 marks)

2. Liam's new car has an on-board computer.

At the end of a journey the car's computer displays the information below.

Journey information	
Distance	186.66667 miles
Average Speed	70 miles/hour

Use the information above to calculate the time he has taken for his journey.

Give your answer in hours and minutes.

(3 marks)

Working :

3. Gordon buys an antique teapot for £80.00

(3 marks)

He sells it on an Internet auction site for £132.00

Calculate his percentage profit.

Working :

4. Solve algebraically the equation.

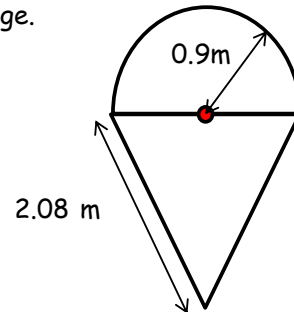
$$7h - 4 = 3h + -4$$

Working :

(3 marks)

5. Jordan is making a sign for Capaldi's Ice Cream Parlour.
The sign will have two equal straight edges and a semi-circular edge.

Each straight edge is 2.08 metres long and
the radius of the semi-circle is 0.9 metres.



Calculate the perimeter of the sign to 1 decimal place.

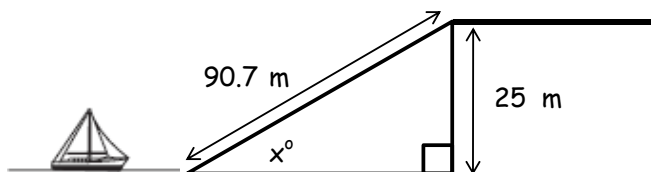
Working :

(4 marks)

6. A boat elevator is used to take a boat from the lower canal to the upper canal.

The boat elevator is in the shape of a triangle.
The length of the hypotenuse is 90.7 metres.
The height of the triangle is 25 metres.

18



Working :

Calculate the size of the shaded angle x° to the nearest degree.

(3 marks)

Total marks 21