Name :

Teacher :

General Official Homework 9

Created by Mr Lafferty

St. Ninian's High School

This homework covers topics

Score

22

Basic Number Operations ☐

Algebraic Equations ☐

Pythagoras Theorem ☐

Money Hire Purchase ☐

Money Exchange Rate ☐

Trigonometry ☐

Teacher Comments :

Pupil's Comment :

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

(a)   736.7   -   452.5

Answer [red box]

Working :

(b)   24.1   x   70

Answer [red box]

Working :

(c)   353.4   ÷   6

Answer : [red box]
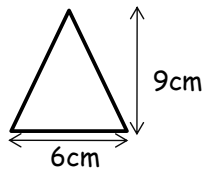
Working :

(d)   40   % of   23

Answer : [red box]

Working :

(5 marks)

2. An earring in the shape of an isosceles triangle is made from silver wire.
    The dimensions of the earring are shown on the diagram below.

9cm

6cm

Calculate the length of silver wire needed to make a pair of earrings to 1 decimal place.

Answer [red box] cm   (4 marks)

Working :

3. When on holiday in Spain, Connor sees a pair of jeans priced at 90 euros.   (3 marks)
    Connor knows that he gets   18 euros for £10.
    What is the price of the jeans
    in pounds to the nearest pence ?

Answer : [red box]

Working :

4. Solve algebraically the equation.

9 m - 4 = 3 m + 50

Answer :

Working :

(3 marks)

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5. Liam buys a new stereo using the monthly payment plan. The cash price of the stereo is £700
The total cost of the monthly payment plan is 10 % more than the cash price.

Liam pays a deposit of one fifth of the cash price followed by 18 equal monthly payments.

How much will Liam pay each month
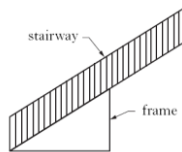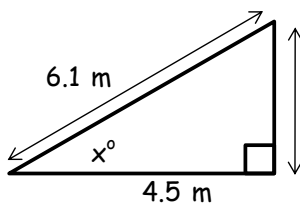to the nearest pence ?   Payments =

Working :

(4 marks)

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6. Chris is making a frame to strengthen a stairway in a shopping centre.
He needs to know the angle the stairway makes with the floor,
as shown in the diagram below.
The hypotenuse of the frame is 6.1m
and the horizontal distance is 4.5m.

stairway

frame

6.1 m

x°

4.5 m

Working :

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

(3 marks)

Total marks 22