

Name :

Teacher :

## General Official Homework 7

Created by Mr Lafferty  
St. Ninian's High School

This homework covers topics

Score

Basic Number Operations

Algebraic Brackets

Pythagoras Theorem

Mean from Frequency Table

Conversion

Length & Circle

22

Teacher Comments :

Pupil's Comment :

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

(a)  $794.2 - 488.8$

Working :

(b)  $48.3 \times 40$

Working :

(c)  $267.5 \div 5$

Working :

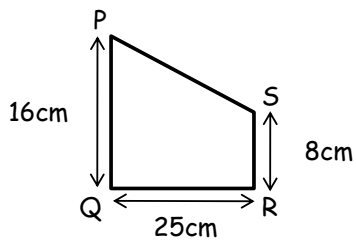
(d) 80 % of 31

Working :

( 5 marks )

2. Lewis is designing a bird box for his garden.

The dimensions for the side of the box are shown in the diagram below.



Calculate the length of side PS to 1 decimal place.

( 4 marks )

Working :

3. Ben needs 300 grams of flour to bake two small loaves of bread.

( 2 marks )

How many **kilograms** of flour will he need for 13 small loaves?

Working :

4. Simplify

$$5 ( g + 4 ) + 6 ( 2 - 4 g )$$

Working :

( 3 marks )

5. Danielle wanted to know the average number of hours cars were parked in a car park. She did a survey of 58 cars which were parked in the car park on a particular day. Her results are shown below.

Parking time (Hours)	Frequency	Parking Time x frequency
1	17	
2	9	
3	9	
4	9	
5	4	
6	7	
7	3	
Totals =	58	

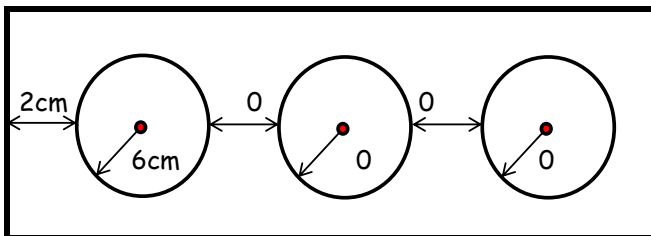
Complete the above table and find the **mean** parking time per car.

Working :

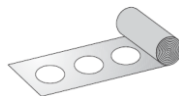
Round your answer to 1 decimal place.

( 4 marks )

6. Circular tops for yoghurt cartons are cut from a strip of metal foil as shown below.



The radius of each top is 6 centimetres.  
The gap between each top is 2 centimetre.



Working :

( 4 marks )

How many tops can be cut from a strip of foil 9 metres long ?

Total marks 22