

# **GCSE MATHEMATICS**

## **PLC PROJECT**

**INSTRUCTIONS:**

# Approximations 1

## Content

- Significant figures, decimal places
- Estimate answers to calculations involving division
- Recognise that measurements given to the nearest whole unit may be inaccurate by up to half in either direction.
- Use approximations in real-life contexts

## Question 1

(a)

Write the number 867 to the nearest 100

.....  
(1)

(b)

Write 7643 to the nearest 100

.....  
(1)

## Question 2

(a) Write the number 7623 correct to 1 significant figure.

.....  
(1)

(b) Write the number 0.00821 correct to 2 significant figures.

.....  
(1)

## Question 3

The weight of a bag of potatoes is 25 kg, correct to the nearest kg.

(a) Write down the smallest possible weight of the bag of potatoes.

..... kg  
(1)

(b) Write down the largest possible weight of the bag of potatoes.

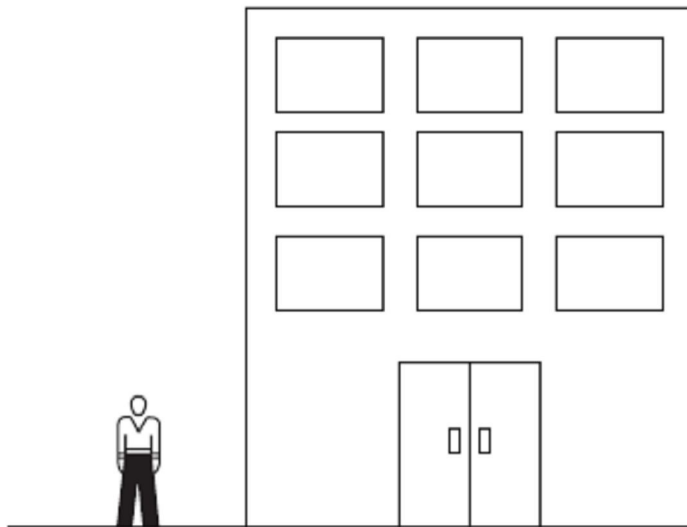
..... kg  
(1)

**Question 4**

Work out an estimate for the value of  $\frac{637}{3.2 \times 9.8}$

.....  
**(Total 2 marks)**

**Question 5**



The diagram shows a building and a man.  
The man is of normal height.  
The man and the building are drawn to the same scale.

(a) Write down an estimate for the height of the man.

.....  
**(1)**

(b) Write down an estimate for the height of the building.

.....  
**(1)**

**Total Mark / 10**