Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Estimation

Calculator Not Allowed

INSTRUCTIONS TO CANDIDATES

Write your name in the space provided.

Write your answers in the spaces provided in this question paper.

Answer ALL questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

Total Marks :

1) Estimate the answer to $\dfrac{4.7 \times 20.1}{5.6 - 1.8}$

Answer _____ [2]

2) **(a)** Write

(i) 5386 correct to the nearest 10

Answer _____ [1]

(ii) 5386 correct to the nearest 100

Answer _____ [1]

(b) Estimate

(i) 106×4.873

Answer _____ [2]

(ii) how many books costing £3.86 each can be bought for £18?

Answer _____ [2]

3)

(a) In an examination hall the desks are arranged in rows.

Each row has 28 desks and there are 14 rows.

Estimate the number of desks in the examination hall.

Answer _____ desks [2]

(b) The memory card in a digital camera contains 112 pictures.

A photo booth charges 18p per print for photographs.

Estimate how much it would cost to print out all the pictures on the memory card.

Answer £ _____ [2]

(c) A shop is selling low-energy light bulbs for £2.89 each.

Estimate how many I can buy for £20

Answer _____ bulbs [2]

4)   **Estimate** the value of 27.29×10.13

Answer _____ [1]

5)   **Estimate** the value of 41.73×9.62

Answer _____ [1]

6)   Estimate $\dfrac{412 \times 7.82}{0.17}$

Show your working.

Answer _____ [3]

7)   **Estimate** the value of $\dfrac{498 \times 6.21}{0.215}$

Show your working.

Answer _____ [3]

Estimate

8) **(a)** 39.3×1.9

Answer _____ [2]

(b) $39.3 \div 1.9$

Answer _____ [1]

(c) how many CDs costing £9.85 can be bought for £120

Answer _____ [2]

(d) how many $404\,\text{g}$ packets can be filled from a bag containing $8\,\text{kg}$.

Answer _____ [2]

Pete says that the square root of 55 lies between 7 and 8

9)

Is he right? Explain your answer.

Answer _____ because _____

_____ [1]

10)

Estimate how many books costing £4.19 each could be bought for £30

Answer _____ books [2]

Estimate the total weight of 78 turkeys whose average weight is 3.2 kilograms.

Answer _____ kg [2]

Estimate the length of the side of a square garden whose area is 85 square metres.

Answer _____ m [1]