

**AQA, OCR, Edexcel**

**GCSE**

# **GCSE Maths**

## Estimating Answers

Name:

**M**

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**E**

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Total Marks:     /17

## Estimating

1. Approximate the value of the following quantities:

a.  $\frac{0.99 \times 101}{3.9 \times 5.2}$

b.  $\frac{1.98 \times 299}{0.51}$

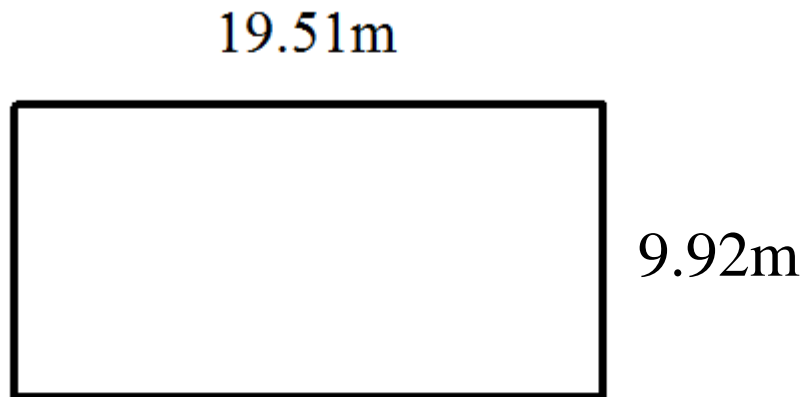
c.  $\frac{0.97 + 101}{3.21 + 16.7}$

(6 Marks)

2. A tube has a height of 9.50 cm and a radius of 0.98cm.  
Give an estimate for the volume of the tube in  $\text{cm}^3$ . Leave your answer in terms of  $\pi$ .

(2 marks)

3. A diagram of a farmer's field is shown below:



- Calculate an estimate for the area of the field.
- Each cow needs at least  $4.5\text{m}^2$  of room in a field, use your answer to part a to estimate the maximum number of cows which can be placed in the field.

(5 Marks)

4. Consider the following calculation:

$$\frac{467.2 \times 36.1}{21.3 \times 5.4}$$

- By rounding each number to 1 significant figure calculate an estimate to the calculation above.
- Will your answer to part a be larger or smaller than the exact answer? Explain your answer.

(4 Marks)