MEGA LECTURE

Estimation

Question Paper 1

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Estimation
Booklet	Question Paper 1

Time Allowed: 11 minutes

Score: /9

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

1   By writing each number correct to 1 significant figure, estimate the value of $\dfrac{\sqrt{3.9} \times 29.3}{8.9 - 2.7}$.

Show all your working.

Answer .... [2]

2   The probability that it will rain on any day is $\dfrac{1}{5}$.

Calculate an estimate of the number of days it will rain in a month with 30 days.

Answer .... [1]

3

$$p = \frac{0.002751 \times 3400}{(9.8923 + 24.7777)^2}.$$

(a) In the spaces provided, write each number in this calculation correct to 1 significant figure.
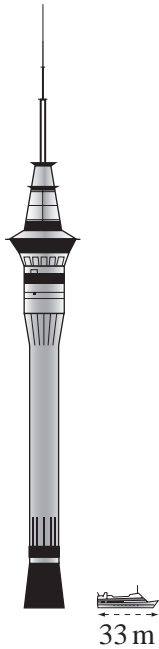
Answer(a) $\dfrac{\text{....................} \times \text{....................}}{(\text{....................} + \text{....................})^2}$

[1]

(b) Use your answer to **part (a)** to **estimate** the value of p.

Answer(b)   .... [1]

4

33 m

The picture shows the Sky Tower in Auckland.
Alongside the tower is a boat. The boat is 33 metres long.
Use the length of the boat to estimate the height of the Sky Tower.

Answer .... m [2]

5

$$p = \frac{4.8 \times 1.98276}{16.83}$$

(a) In the spaces provided, write each number in this calculation correct to 1 significant figure.

Answer(a)

$$\frac{\text{............} \times \text{............}}{\text{............}}$$

[1]

(b) Use your answer to **part (a)** to estimate the value of p.

Answer(b) .... [1]