

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 $\frac{\sqrt{3.9} \times 29.3}{8.9 - 2.7}$.

Show all your working.

Answer [2]

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

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.

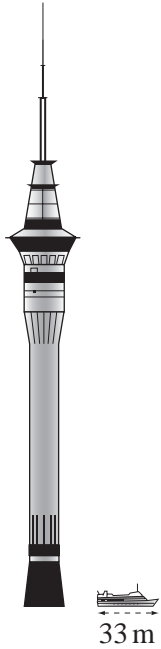
$$\text{Answer(a)} \quad \frac{\dots \times \dots}{(\dots + \dots)^2}$$

[1]

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

Answer(b) [1]

4



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)

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[1]

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

Answer(b) [1]