# Numbers & Accuracy- WS4

**L 4-7**

**Question 1**

Find the lowest common multiple (LCM) of 20 and 24. [2]

## Question 2

**Without using your calculator** and by rounding each number correct to 1 significant figure, estimate the value of

10.3 x 19.5 .

88.9 - 43.2

You must show all your working. [2]

## Question 3

Write these in order of size, smallest first.

0.63 0.22 [2]

## Question 4

The probability that it will rain on any day is 1

.

5

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

[1]

## Question 5

A lake has an area of 63 800000 000 square metres.

Write this area in square kilometres, correct to 2 significant figures. [2]

210

2

From the list of numbers, find

2 212 213 214 215 216

1. a prime number, [1]
2. a cube number. [1]

## Question 7

Which of the following numbers are irrational?

2

1

36

3

6

2

+ π 0.75 48% 3

8

3

[2]

Write 0.00658

1. in standard form, [1]
2. correct to 2 significant figures. [1]

## Question 9

*p* = 0.002751×3400 .

(9.8923 + 24.7777)*2*

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



(  )2

[1]

1. Use your answer to part (a) to estimate the value of *p*. [1]

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.

[2]



33 m

## Question 11

The area of a small country is 78 133 square kilometres.

* 1. Write this area correct to 1 significant figure. [1]

(b) Write your answer to part (a) in standard form. [1]

## Question 12

The altitude of Death Valley is 086 metres. The altitude of Mount Whitney is 4418 metres.

**2**

Calculate the difference between these two altitudes.

[1]

## Question 13



*X =*{integers}

*Y =* {irrational numbers}

List the members of

(a) *X*,

[1]

(b) *Y*. [1]

## Question 14

Complete this table of squares and cubes.

**8**

The numbers are not in sequence. [3]

|  |  |  |
| --- | --- | --- |
| Number | Square | Cube |
| 3 | 9 | 27 |
| ....... | 121 | ....... |
| ....... | ....... | 2744 |
| ....... | ....... | 0343 |