

Non-Calculator

Q1.

By rounding each number to the nearest 10,

estimate the answer to $\frac{61 \times 47}{102}$

You **must** show your working.

Answer _____

(Total 2 marks)

Q2.

Use approximations to estimate the value of $\frac{3.92^2}{0.48}$

Answer _____

(Total 2 marks)

Q3.

Here are four cards.



- (a) Write down the value of the digit 5 in the number 5348

Answer _____ (1)

- (b) Write the number 5348 to the nearest hundred.

Answer _____ (1)

- (c) What is the largest number you can make using all four cards?

Answer _____ (1)

- (d) What is the smallest **odd** number you can make using all four cards?

Answer _____ (1)
(Total 4 marks)

Q4.

A pop concert has a crowd of 2000 people rounded to 1 significant figure.

A rock concert has a crowd of 2000 people rounded to 2 significant figures.

Work out the largest possible difference between the exact numbers of the two crowds.

Answer _____ (Total 3 marks)

Calculator

Q5.

$x = 2500$ to the nearest 100

Circle the smallest possible value of x .

2449

2450

2495

2499

(Total 1 mark)

Q6.

A number, x , is 30 when rounded to the nearest 10

Work out the value of the square root of the least possible value of x .

Answer _____

(Total 2 marks)

Q7.

(a) Use your calculator to work out $6.7 + 21.5 - 3.09$

Answer _____

(1)

(b) Use your calculator to work out 265×89

Answer _____

(1)

(c) Use your calculator to work out $\sqrt{227}$
Write down your full calculator display.

Answer _____

(1)

(d) Give your answer to part (c) to 1 decimal place.

Answer _____

(1)

(Total 4 marks)

Q8.

Use your calculator to work out $\frac{3.21 + 4.89}{5.62 - 1.89}$ as a decimal.

- (a) Write down your full calculator display.

Answer _____

(1)

- (b) Write your answer to 1 decimal place.

Answer _____

(1)

(Total 2 marks)