

## Non-Calculator

Q1.

By rounding each number to the nearest 10,

estimate the answer  $\frac{61 \times 47}{102}$  to You must show your working.

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Answer \_\_\_\_\_  
(Total 2 marks)

Q2.

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

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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  $265 \times 89$

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.

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Answer -----

(1)

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

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Answer -----

(1)

(Total 2 marks)