

Rounding

For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **23**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. You may use a calculator.

1 (a) Write 38 652 correct to the nearest 10

.....
(1)

(b) Write 38 652 correct to the nearest 1000

.....
(1)

(Total for Question 1 is 2 marks)

2 (a) Write 3470 correct to 2 significant figures.

.....
(1)

(b) Write 0.04571 correct to 1 significant figure.

.....
(1)

(c) Write 18.965 correct to 1 decimal place.

.....
(1)

(d) Write 6.0047 correct to 3 decimal places.

.....
(1)

(Total for Question 2 is 4 marks)

3 Round 0.098 52 to 2 significant figures.

.....
(1)

(Total for Question 3 is 1 mark)

- 4** There are 1287 students at a school.
Nia says there are 1300 students to the nearest 10
Explain Nia's mistake.

(1)

(Total for Question 4 is 1 mark)

- 5** (a) Use your calculator to work out $\frac{21.6 + 3.54}{1.2^2}$
Write down all the figures on your calculator display.

.....
(2)

- (b) Write your answer to part (a) correct to 2 significant figures.

.....
(1)

(Total for Question 5 is 3 marks)

- 6** A box of 40 pens costs £3.49
Work out the cost of one pen, in pence.
Give your answer to the nearest penny.

..... p
(2)

(Total for Question 6 is 2 marks)

- 7** Work out the circumference of a circle of diameter 9.4 cm.
Give your answer correct to 3 significant figures.

..... cm
(2)

(Total for Question 7 is 2 marks)

- 8** Hana has £40
Cinema tickets cost £6.85 each.
Work out the greatest number of cinema tickets Hana can buy.

.....
(2)

(Total for Question 8 is 2 marks)

- 9 Jake was asked to write 7.3449 correct to 1 decimal place.
Here is his working.

7.3449 $\rightarrow$ 7.345 $\rightarrow$ 7.35 $\rightarrow$ 7.4

- (a) Explain what Jake has done wrong.

(1)

- (b) Write 7.3449 correct to 1 decimal place.

.....
(1)
(Total for Question 9 is 2 marks)

- 10 A museum had 4700 visitors on Saturday, correct to the nearest hundred.

- (a) Write down the least possible number of visitors on Saturday.

.....
(1)

- (b) On Sunday, the museum also had 4700 visitors, correct to the nearest hundred.
Work out the greatest possible difference between the number of visitors on Saturday and the number of visitors on Sunday.

.....
(1)
(Total for Question 10 is 2 marks)

- 11** Ffion thinks of two whole numbers.
She rounds the first number to the nearest 10 and gets 40
She rounds the second number to the nearest 100 and gets 300
Work out the greatest possible difference between Ffion's two numbers.

.....
(2)

(Total for Question 11 is 2 marks)
