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**ST MARTN DE PORRES SECONDARY SCHOOL****GRADE 8 MATHEMATICS CONTROLLED TEST****TERM ONE****TIME 1 HOUR 30 MINUTES****MARKS:50****NAME & SURNAME**.....**CLASS**.....**EXAMINER: MR T NONGAI****MODERATOR: MR A CHIKWAVA****INSTRUCTIONS AND INFORMATION**

1. Write neatly and legibly
2. Show all working
3. Answers without working will NOT be awarded full marks
4. Use blue or black ink. Answers written in pencil will not be marked.

**MARK**

**QUESTION 1**

Calculate the following without using a calculator

**1.1.1**  $(2+4) \times 3$

.....  
 .....  
 .....[2]

**1.1.2**  $8 + 4 \times 2 - 10 + 3 \times 2$

.....  
 .....  
 .....[2]

**QUESTION 2**

Round off the following as indicated

**2.1.1** 3186 to the nearest 100

.....[1]

**2.1.2** 57, 63 to the nearest whole number

.....[1]

**QUESTION 3**

Express the following as a product of their prime factors

**3.1.1** 72.....

.....  
 .....  
 .....  
 .....  
 .....[2]

**3.1.2** 108.....

.....  
 .....  
 .....  
 .....  
 .....[2]

**3.1.3** Hence or otherwise find the H.C.F of 72 and 108

.....  
 .....  
 .....  
 .....[3]

**3.1.4** L.C.M of 72 and 108

.....  
 .....  
 .....  
 .....[3]

#### **QUSRETION 4**

Express the following ratios in their simplest form

**4.1.1** 27:36

.....  
 .....  
 .....  
 .....[2]

**4.1.2** 4kg : 800g : 400g

.....  
 .....  
 .....  
 .....[2]

**4.1.3** There are 600 learners at St Martin de Porres. The ratio of boys to girls in the school is 3:5. How many girls are there in the school.

.....  
 .....  
 .....  
 .....  
 .....[3]

#### **QUESTION 5**

Pabalo is planning an overseas trip to Europe. Her budget excluding flight expenses is as follows:

€1000 for accommodation

€500 for travelling in Europe

€600 for food

€100 for photos

What is her total budget in Rands if the exchange ratio of the rand to euro is €1 = R15

.....

.....

.....

.....

.....[4]

### QUESTION 6

A supermarket decides to give 25% discount on all food items. If a bag of potatoes is originally sold at R54. How much will it be sold for after the discount.

.....

.....

.....

.....[3]

### QUESTION 7

Use a number line to calculate the following

**7.1.1**  $-10 + (-1)$

.....

.....[2]

**7.1.2**  $(-3) + (-4) + (+5) + (-6)$

.....

.....[3]

**7.1.3** Arrange the following integers in ascending order

-7, -50, 0, 2, -5, -13, 7, 90

.....[3]

**7.1.4** Determine the values of P, Q and R in the following pattern

10, 4, -2, P, Q, -20, R -32.

.....[4]

### QUESTION 8

Calculate the following

**8.1.1** 20% of 300km

.....

.....

.....[2]

**8.1.2**      5% of R3 500 000

.....  
.....  
.....[2]

**8.1.3** Increase 7 500 by 120%

.....  
.....  
.....[3]

**TOTAL 50 MARKS**