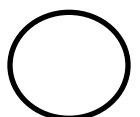
 <p><b>PARYS</b>      <b>Grade 7 Mathematics</b></p> <p><b>Formal Assessment 1.1.</b>  <b>Whole numbers &amp;  Financial Maths</b></p> <p style="text-align: right;"><b>Time: 1 hour</b></p>	<p style="text-align: center;"><b><u>Examinator:</u></b></p> <ul style="list-style-type: none"> <li>• L. Cronje</li> </ul> <p style="text-align: center;"><b><u>Moderator:</u></b></p> <ul style="list-style-type: none"> <li>• J. Olivier</li> </ul>
<p><b>Name &amp; Surname:</b></p> <hr/> <p><b>Gr. 7 E</b></p>	<p style="text-align: right;"><b>Mark : _____ / 50</b></p> <p style="text-align: right;"><b>Percentage : _____ %</b></p> <p style="text-align: right;"><b>Level : _____</b></p>

**Instructions:**

1. Please write neatly and legibly with a BLUE PEN.
2. Answer ALL the questions on the paper.
3. ALL CALCULATIONS must be shown / done on the paper in the spaces provided.
4. You are NOT allowed to use a calculator.
5. Read all questions carefully and thoroughly, GOOD LUCK!

**1. Choose the correct answer by writing the letter of your choice on the line:**

- 1.1.      What is the composite factor(s) of 20?      \_\_\_\_\_
- A. 1; 2; 4; 5; 10; 20                                      C. 1
- B. 2 and 5    D. 20
- 
- 1.2.      What is the sum of the first five prime numbers?      \_\_\_\_\_
- A. 15                                      B. 18                                      C. 28
- 
- 1.3.      What is the LCM of 15 and 25?      \_\_\_\_\_
- A. 5                                      B. 75                                      C. 150
- 
- 1.4.       $abc \times 0 = 0$       \_\_\_\_\_
- A. true                                      B. false
- 
- 1.5.       $99\,999 \div 0 = ?$       \_\_\_\_\_
- A. 0                                      B. 99\,999                                      C. undefined



- 1.6. Which of the following comparisons is incorrect? \_\_\_\_\_
- A.  $5 \times 6 = 6 \times 5$                       C.  $5 + 6 = 6 + 5$   
 B.  $5 \div 6 = 6 \div 5$                       D.  $a \times (b \times c) = (a \times b) \times c$

- 1.7. On your savings account statement, \_\_\_\_\_  
 your balance is shown as R 453,50. There is also R 5,25 interest.  
 How much money was there in your account before the interest?
- A. R 453,50              B. R 448,25              C. R 458,75

(7)

**2. Fit the properties of the whole numbers in column A with the examples in column B:**

<u>Column A:</u>	<u>Column B:</u>	<u>Column C:</u>
2.1. Distributive property	A. $g + h = h + g$	2.1.
2.2. Associative property	B. $m(a + b) = (m \times a) + (m \times b)$	2.2.
2.3. Commutative property	C. $(d + e) + f = d + (e + f)$	2.3.

(3)

**3. Complete:**

**903675 ; 903 678 ; 903 672 ; 903 681 ; 903 696**

- 3.1. Arrange the numbers above in descending order:  
 \_\_\_\_\_ (2)

- 3.2. What is the difference between the two largest numbers?  
 \_\_\_\_\_ (1)

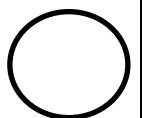
- 3.3. What is the place value of the 9 in 903 681? \_\_\_\_\_ (1)

- 3.4. Round 903 678 off to the nearest

5: \_\_\_\_\_

1 000: \_\_\_\_\_

(2)



**4. Complete:**

4.1. Identify the rule in the number pattern below:

72 002; 78 502; 85 002; 91 502 \_\_\_\_\_ (1)

4.2. Which number is halfway between 72 002 and 91 502? (Show all your calculations!)

(3)

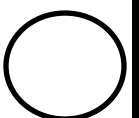
4.3. Fill in <, > or =: 78 502 \_\_\_\_\_  $70\,000 + 5\,000 + 800 + 2$  (1)

4.4. List the multiples of 150 between 220 and 630.  
\_\_\_\_\_ (1)

**5. Calculate / Solve:**

5.1.  $15(8 - 4) = (15 \times \text{_____}) - (\text{_____} \times 4) = \text{_____}$  (3)

5.2.  $90 \div 9 + 19 \times (8 - 6)^2 = ?$   
= \_\_\_\_\_  
= \_\_\_\_\_  
= \_\_\_\_\_ (3)



5.3. If  $a = 3$ ,  $b = 5$  and  $c = 6$ , calculate the answer of:

$$c(b \times a) \div b + 1 = ?$$

(3)

6. Test whether the following calculation was done correctly. Make use of the INVERSE, vertical method of calculation:

$$308\ 500 \div 125 = 2\ 468$$

(3)

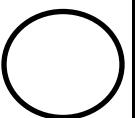
7. Complete:

7.1. Simplify the following ratio: R6,40 : 80c \_\_\_\_\_

(2)

7.2. Write down the unit rate for  $\frac{100\ m}{10\ s}$  : \_\_\_\_\_

(2)



**8. Problem solving: solve the following by showing ALL your calculations:**

8.1. There are 90 apples in a bag. Divide the apples between 2 people in the ratio of 2 : 3.

(3)

8.2. Ruby climbs a mountain and advances 120 meters every hour. At this rate, how many centimeters will she travel in 4 hours?

\_\_\_\_\_ (3)

8.3. A cellphone is purchased for R2 500 and is then sold for R4 000. Calculate whether a profit or loss was made and what the amount was.

\_\_\_\_\_ (2)

8.4. Tim wants to buy a television. He takes out a loan of R5 000 at 15% interest per year for 2 years.

a) How much interest must Tim pay?

(2)

b) What is the total amount that Tim will pay for his television set?

\_\_\_\_\_ (2)

**Total: 50 marks**

