

Blouberg Ridge Primary School

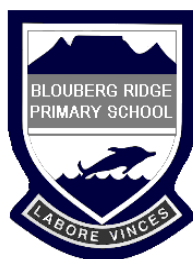
Mathematics

Marking Guideline

Date: 1 July 2021

Examiner: P. Swanepoel

Task 4: Test



Marker: P. Swanepoel

Grade 6

Time allocation: 1 hour

Moderator: .....

Total: 40 marks

**Question 1: [KNOWLEDGE]**

**[14 marks]**

1.1) Arrange the following numbers from biggest to smallest: (1)

123 231 ; 45 001 ; 5 2 11 ; 772 441 ; 46 020 ; 76 123

**772 441 ; 123 231 ; 76 123 ; 46 020 ; 45 001 ; 5 211 ✓ (all values in order)**

1.2) Determine the Highest Common Factor (HCF) of 24 and 36. (3)

**F 24: 1;2;3;4;6;8;12;24 ✓ (must contain all factors)**

**F 36: 1;2;3;4;6;9;12;18;36 ✓ HCF = 12 ✓**

1.3) Determine the prime factors of 56. (1)

**PF 56 = 2 and 7 ✓ (must contain both PF's)**

1.4) Find the Lowest Common Multiple (LCM) of 9 and 12 (3)

**M 9: 9;18;27;36;48;56... ✓ M 12: 12;24;36;48;60;72... ✓ LCM = 36 ✓**

1.5) Write the following fractions in their simplest form: (2)

a.)  $\frac{14}{20} = \frac{7}{10} \checkmark$       b.)  $\frac{18}{5} = 3\frac{3}{5} \checkmark$

1.6) Compare the following fractions by filling in < ; > or = : (2)

a.)  $\frac{5}{8} = \checkmark \frac{10}{16}$       b.)  $\frac{5}{6} > \checkmark \frac{4}{5}$

1.7) Fill in the missing value for the following equivalent fractions: (2)

a.)  $\frac{8}{16} = \frac{1}{\square}$  Answer: **2 ✓**

b.)  $\frac{4}{9} = \frac{\square}{27}$  Answer: **12 ✓**

**Question 2 [ COMPLEX PROCEDURE]**

**[ 4 marks ]**

2.1) Use the table below to answer the following:

Input	1	2	3	4		15	<b>20 ✓</b>
Output	9	16	23	30		<b>107 ✓</b>	142

a.) Describe the pattern: **+ 7 / adding 7 ✓** (1)

b.) Determine the rule for this number pattern. **X 7 + 2 ✓** (1)

c.) Complete the table by filling in the missing values. (2)

**Question 3 [ROUTINE PROCEDURE]**

**[14 marks]**

3.1) Calculate the following:

a.)  $143\ 007 + 3\ 178 + 21\ 119$  (1)      b.)  $87\ 078 - 6\ 667 - 1\ 559$  (2)

<p><b>167 304 ✓</b></p>	<p><math>87\ 078 - 6\ 667 = \mathbf{80\ 411 ✓}</math></p> <p><math>80\ 411 - 1\ 559 = \mathbf{78\ 852 ✓}</math> or</p> <p><math>87\ 078 - \mathbf{8226} = \mathbf{78\ 852}</math></p>
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c.)  $7\ 693 \times 284$  (4)      d.)  $3\ 676 \div 18$  (2)

**\*Suitable method (Vertical column/  
Lattice)**

**\* Product lines:**  $(7\ 693 \times 4)$  **30 772 ✓**  
 $(7\ 693 \times 80)$  **615 440**  
 $(7\ 693 \times 200)$  **1 538 600 ✓**  
**(all correct)**

18/ 3 676

- 36 ✓

..7

- 0

76

**\* Answer: 2 184 812 ✓**

- 72

4 **Answer= 204 r.4 ✓**

e.)  $3\frac{1}{4} + 1\frac{1}{2}$  (2)

LCD = 4 ✓

Answer:  $4\frac{3}{4}$  ✓

f.)  $2\frac{1}{12} - 1\frac{2}{3}$  (2)

LCD = 12 ✓

Answer =  $\frac{5}{12}$  ✓

g.)  $\frac{7}{8}$  of 64 = 56 ✓ (1)

**Question 4 [ COMPLEX PROCEDURE]**

**[4 marks]**

4.1) A traveller went on a three-day road trip in his car. The table shows the various distances he travelled per day:

	Day 1	Day 2	Day 3
Distance travelled over 3 days.	256 km	Double the distance of Day 1.	12 km less than the Distance of Day 1.

Calculate the total distance travelled over the three days.

**256 km ✓ + 512 km ✓ + 244 km ✓ = 1 012 km ✓**

**Question 5: [ PROBLEM SOLVING]**

**[4 marks]**

5.1) Julien saved money to buy a new skateboard which costs R800. His dad agreed to pay  $\frac{3}{8}$  of the price and Julien pays the rest. How much will Julian have to pay for the skateboard?

N: **R800 - ✓ ( $\frac{3}{8}$  of R800) ✓ or  $\frac{5}{8}$  ✓ of R800 ✓**

W: **any suitable calculations- must reflect 300 ✓ /  $800 \div 8 = 100$  ✓**

A: Julien must pay **R500 ✓**

Exemplar