

WESTERING PRIMARY SCHOOL
GRADE 6 MATHEMATICS TEST
5 June 2025



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Total		50

NAME: _____

EXAMINER: Mr B. Peterson

GRADE 6: _____

PARENT SIGNATURE: _____

SUBJECT HEAD: Miss H. Staples

TOTAL MARKS: 50

INSTRUCTIONS:

1. Answer all the questions in this question paper.
2. No calculators allowed.

General Questions - 7 Marks

1. Arrange the following numbers in descending order. (1)

468 232 ; 254 258 ; 254 250 ; 235 808 ; 452 232

468 232 ; 452 232 ; 254 258 ; 254 250 ; 235 808

2. What is 1596 rounded off to the nearest 100? Underline the correct answer. (1)

1500

1595

1600

1510

3. Use < or > or = to compare the following numbers. (1)

0,11 > 0,101

203,32 > 203,300

4. Arrange the following fractions in ascending order. (1)

$2\frac{1}{2}$; $2\frac{6}{10}$; $2\frac{2}{5}$; $1\frac{4}{5}$ $1\frac{4}{5}$; $2\frac{2}{5}$; $2\frac{1}{2}$; $2\frac{6}{10}$

5. The difference in this pattern is not constant. Underline the correct answer. (1)

22,25 ; 22,5 ; 22,75

True

False

6. What is the difference between 12,5 and 6,8? Underline the correct answer. (1)

5,4

5,6

5,7

5,8

$$\begin{array}{r} 12,5 \\ - 6,8 \\ \hline 5,7 \end{array}$$

7. What is the number halfway between 560 and 2908? Underline the correct answer. (1)

1734

1852

1454

1120

$$\begin{array}{r} 2908 \\ + 560 \\ \hline 3468 \end{array}$$

$$3468 \div 2 = 1734$$

Basic Operations – 6 Marks

$12325 + 11256$ (1) 23581 ✓	$9852 - 3582$ (1) 6270 ✓
$5658 \div 225$ (2) $\cdot 25 \text{ r } 33$ $225 \overline{) 5658}$ $\underline{450}$ 1158 $\underline{1125}$ $\cdot \cdot 33$	4258×256 (2) $\begin{array}{r} 4258 \\ \times 256 \\ \hline 25168 \\ 212900 \\ 851600 \\ \hline 1090048 \end{array}$

Basic Operations in Context – 6 marks

1. If one bag of nails contains 613 nails and a hardware store has 23 of these bags, how many nails would the hardware store have in total? Show all workings. (2)

Total nails = □

$$613 \times 23 \quad \checkmark$$

$$\begin{array}{r} 613 \\ \times 23 \\ \hline 1839 \\ 12260 \\ \hline 14099 \end{array} \quad \checkmark$$

The hardware store would have 14 099 nails.

2. 266 bottles of Fanta must be packed into boxes. How many boxes will be needed if a box can only hold 14 bottles of Fanta? Show all workings. (2)

Number of boxes = □

$$266 \div 14 \quad \checkmark$$

$$\begin{array}{r} 19 \\ 14 \overline{) 266} \\ \underline{-14} \downarrow \\ 126 \\ \underline{-126} \\ \cdot \cdot \cdot \end{array} \quad \checkmark$$

19 boxes will be needed.

3. The iStore has three Apple laptops on sale. Their prices are as follows: R35 000, R29 999 and R20 999. Calculate the total value of all the laptops together. Show all workings. (2)

$$R35\,000 + R29\,999 + R20\,999 = \square \quad \checkmark$$

The total value is R85 998.

$$\begin{array}{r} 35\,000 \\ + 29\,999 \\ + 20\,999 \\ \hline 85\,998 \end{array} \quad \checkmark$$

Ratio – 4 marks

1. It is inventory/stocktake time at the local grocery store. Help by answering the following questions:

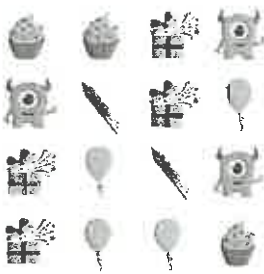
1.1)1. If there are 60 green apples and 20 red apples, what is the ratio of green to red apples? The answer must be in its simplest form. (1)

3 : 1 ✓

1.2 The ratio of mangoes to kiwis is 25:10. If there are 150 mangoes, how many kiwis would there be? (1)

60 kiwis ✓

2. Look at the following picture and answer the questions which follow:



2.1)What is the ratio of balloons to monsters? (1)

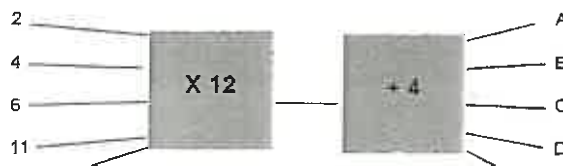
4 : 3 ✓

2.2) If the all the objects in the picture were tripled, what would the ratio of rockets to presents be? (1)

6 : 12 ✓

Numeric and Geometric Patterns – 8 marks

1. Answer the following flow diagram. (4)



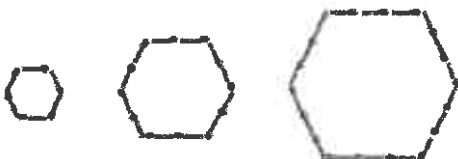
A = 28 ✓

B = 52 ✓

C = 76 ✓

D = 136 ✓

2. Complete the questions after investigating the geometric pattern.



Hexagon number	1	2	3	4	5	10
Number of matches	6	12	18	24 ✓	30 ✓	60 ✓

2.1) Complete the table by filling in the values for hexagon numbers 4; 5 and 10. (3)

2.2) What is the rule for this pattern? (1)

x 6 ✓

Number Sentences – 3 Marks

1. Fill in the missing numbers to make the following statements equivalent. (3)

$$(5 \times 2) + (7 \times 7) = \underline{59} \checkmark$$

$$(502 - 10) + (18 \times \underline{28}) = 528 \checkmark$$

$$(230 - \underline{30}) + (25 \times 2) = (300 - 100) + 50 \checkmark$$

Fractions, Decimals and Percentages – 16 Marks

1. Complete the following. Show all workings and simplify, where possible.

$$\frac{7}{14} + \frac{1}{2} = \frac{7}{14} + \frac{1 \times 7}{2 \times 7} = \frac{7}{14} + \frac{7}{14} = \frac{14}{14} = 1 \checkmark$$

$$\frac{12}{18} - \frac{18}{36} = \frac{12 \times 2}{18 \times 2} - \frac{18}{36} = \frac{24}{36} - \frac{18}{36} = \frac{6}{36} = \frac{1}{6} \checkmark$$

What is $\frac{3}{15}$ of 420? (1)

$$420 \div 15 = 28 \checkmark$$

$$28 \times 3 = \underline{84} \checkmark$$

Find 55% of 240. (1)

$$240 \times 55\% = 240 \times \frac{55}{100} = 132 \checkmark$$

$$6\frac{1}{2} - 3\frac{2}{6} = 6\frac{1 \times 3}{2 \times 3} - 3\frac{2}{6} \checkmark$$

$$6\frac{3}{6} - 3\frac{2}{6} = 3\frac{1}{6} \checkmark$$

$$8\frac{3}{4} + 2\frac{3}{12} = 8\frac{3 \times 3}{4 \times 3} + 2\frac{3}{12} \checkmark$$

$$8\frac{9}{12} + 2\frac{3}{12} = 10\frac{12}{12} = 11 \checkmark$$

2. Calculate the following: (4)

$$18,08 \times 100 = \underline{1808} \checkmark$$

$$0,12 \div 10 = \underline{0,012} \checkmark$$

$$1236,123 \div 1000 = \underline{1,236123} \checkmark$$

$$887,654 \times 1000 = \underline{887654} \checkmark$$

3. Mosa was at the mall and did the following things:

- Bought clothing worth R469,50.
- Ate at McDonalds for R75,49
- Watched a movie (with popcorn and a Slush Puppy) at Ster Kinekor for R220,50
- Spent one hour at Gravity for R120.

3.1) How much did Mosa spend on the day?

(2)

$$R469,50 + R220,50 + R120 + R75,49 = \square$$

$$\begin{array}{r} 469,50 \\ + 220,50 \\ + 120,00 \\ + 75,49 \\ \hline 885,49 \end{array} \quad \checkmark \checkmark$$

Mosa spent R885,49 on the day.

3.2) How much money was leftover if she only had R900?

(2)

$$R900 - R885,49 \quad \checkmark$$

$$\begin{array}{r} 899,99 \\ - 885,49 \\ \hline 14,50 \end{array} \quad \checkmark$$

R14,50 was leftover.

I HOPE YOU ENJOYED THIS TEST

