

NAME: _____

GRADE 7: _____

PARENT SIGNATURE: _____

EXAMINER: MS. STAPLES

SUBJECT HEAD: MS. STAPLES

TOTAL MARKS: 50

INSTRUCTIONS:

1. Read the questions carefully.
2. Answer ALL the questions.
3. You may NOT use a calculator.
4. Write neatly.

Question 1: Whole numbers

1. Write this number in digits: Nine million sixty-one thousand, four hundred and thirty-eight. (1)

2. Compare using >,< or =: (1)

2 563 930 ____ 2 653 940

3. Round off the following number to the nearest: 3 294 678 (3)

Nearest 5	Nearest 100	Nearest 1000
a.	b.	c.

4. Use the correct order of operations (BODMAS) to do the following calculations. (1)

a. $5 \times 7 - 45 \div 5 =$

5. Calculate the following using any method: (2)

a. $9\,567 + 14\,708 + 829$

b. $5\,406 \times 187$

6. Find the lowest common multiple (LCM) of 6 and 11. (2)

LCM: _____

7. Write 24 as a product of its prime factors. Write your final answer in exponential form. (2)

24 = _____

Question 2: Fractions and Percentages

1. Write 0,4 as a: (1)
a. Percentage _____ (1)
b. A common fraction in its simplest form _____ (1)
2. Compare using <> or = (1)
 $\frac{5}{6}$ — $\frac{9}{12}$
3. Change the following improper fraction to a mixed fraction. $\frac{28}{3}$ (1)

4. Simplify the following, show all your working out. *Write your answers in its simplest form.*

a. $2\frac{1}{4} + 1\frac{1}{2} - \frac{1}{3} =$	b. $\frac{2}{6}$ of 24
(2)	(1)

5. Joshua went to a restaurant and received 25% off his bill of R500 as it was his birthday. How much did he pay for his bill? (3)

Question 3: Decimal Fractions

1. Circle the greatest number in the block below. (1)

0,085	8,770	0,870	8,750
7,780	8,88	7,8	

2. Round off the number 17,528 to: (1)
a. The nearest whole number _____ (1)
b. One decimal place _____ (1)
c. Two decimal places _____ (1)

3. Calculate the following:

(2)

a. $5,12 \times 6,3 =$

b. $1\,476,83 - 297,97 =$

4. Bunabile runs 8,2km each day, how far does he run in a week?

(1)

Question 4: Rate and Ratio

1. Share the bill between Meishay and Naeem in the ratio 1:2. The total was R540.

(2)

Meishay paid _____

Naeem paid _____

2. If a taxi travels 240km in 6 hours, how many kilometres does it travel in 1 hour?

(1)

Question 5: Exponents

1. Write the following in exponential form:

(2)

a. $8 \times 8 \times 8 \times 8 \times 8 =$ _____

b. $p \times p \times p \times p \times p \times p \times p =$ _____

2. Write in expanded form and calculate:

(2)

a. $7^2 =$ _____ $=$ _____

b. $4^3 =$ _____ $=$ _____

3. Calculate the following:

(3)

a. $\sqrt{30 - 5} =$ _____

b. $\sqrt[3]{125} =$ _____

c. $5^2 + \sqrt{81} =$ _____ $=$ _____

Question 6: Integers

1. Compare using > < or =

(1)

-7 _____ - 2

2. Calculate the following:

(2)

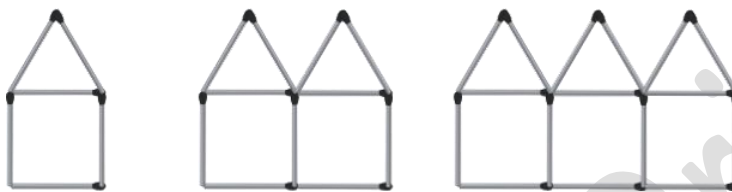
a. $-3 + 8 =$ _____

b. $-5 \times -6 =$ _____

3. On Monday, Hannah borrowed R10 from her mother. On Tuesday, she borrowed another R15 from her mother. How much money does Hannah owe her mother? (Hint: remember the correct symbols) (2)

Question 7: Functions and relationships

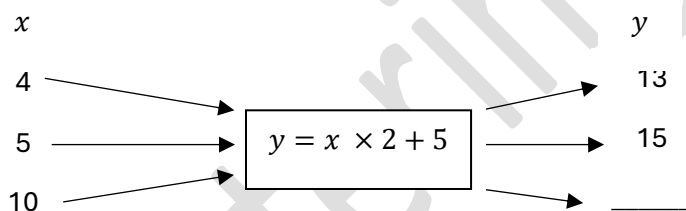
1. Complete the next three terms in each sequence: (2)
- 3; -2; -1; ____; ____; ____
 - 5; 6; 8; 11; 15; ____; ____; ____
2. Look at the following pattern and answer the questions that follow.



- a. Fill in the missing information in the table below: (3)

Number of houses	1	2	4	n
Number of matches	6			

3. Complete the flow diagram using the general rule in the diagram: (1)



TOTAL: 50 MARKS