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GAUTENG PROVINCE

EDUCATION

REPUBLIC OF SOUTH AFRICA

GAUTENG NORTH DISTRICT OFFICE

LEARNER'S NAME & SURNAME	:	
SUBJECT	:	MATHEMATICS
GRADE	:	8
TASK	:	Term 1 Test
MARKS	:	50
DURATION	:	1 Hour

Question	1	2	3	4	5	Total
Topic	Multiple choice questions	Whole Numbers	Integers	Common Fractions	Decimal Fractions	
Total Mark	5	14	8	9	14	50
Learner Mark						

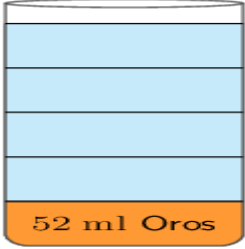
Instructions to the learner

1. Read all the instructions carefully.
2. Answer all the questions in the spaces provided.
3. All working must be shown.
4. The Test is out of 50 marks.
5. The duration is 1 hour.
6. Approved scientific calculators may be used unless stated otherwise.

Question 1 [Multiple Choice]

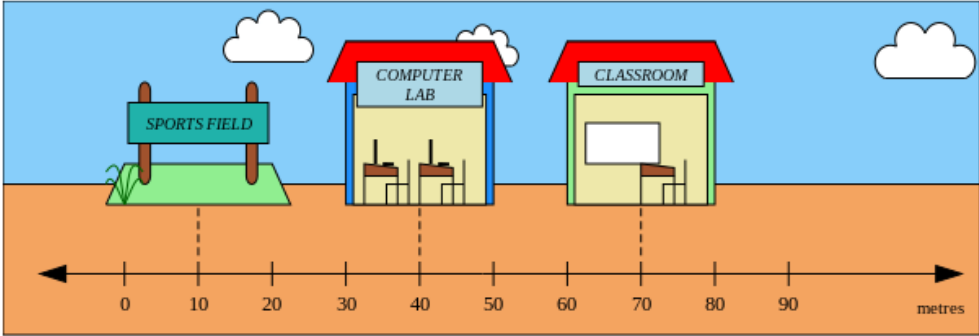
1.	Circle the letter with the correct answer:	
1.1	Calculate: $18 - (3 + 7)$	1
	A -8	
	B 22	
	C 8	
1.2	Jacques has 6 apples. Phozisa has 9 times as many apples as Jacques. How many apples does Phozisa have?	1
	A 54	
	B 15	
	C 3	
1.3	What is the highest common factor of 30 and 18?	1
	A 3	
	B 6	
	C 1	
1.4	Calculate: $(-2) \times -6$	1
	A -12	
	B -10	
	C 12	
1.5	Convert the following improper fraction to a mixed number: $\frac{4}{3}$	1
	A $1\frac{1}{3}$	
	B 12	
	C 7	
		[5]

QUESTION 2: WHOLE NUMBERS

2.1	Oros is a cooldrink that must be mixed with water. The bottle says that the drink must be mixed in the ratio: Oros: Water 1 : 4  Thabo makes a drink with <i>52 ml</i> of Oros. How much water must he use to mix the Oros according to the instructions?	2
2.2	Sihle is watching the news and sees that the exchange rate between the South African rand and the Nigerian naira is $R\ 1 = \text{N}24$. If Sihle has $R7$, how many naira can he get in exchange for his rands?	2
2.3	The cash price of a bedroom suite is $R5\ 100$. Matlhodi buys the bedroom suite on a hire purchase agreement instead of paying cash. There is a special deal, and no deposit is required. Matlhodi pays for the bedroom suite in equal monthly instalments over a <i>year</i>. Interest is 42% per year.	6

	 How much will she pay monthly for a year?	
2.4	Jessica makes beaded necklaces to sell in her shop.  The price of one of her beaded necklaces is R322 including 15% VAT. What is the price of the necklace, excluding VAT?	4
		[14]

QUESTION 3: INTEGERS

3.1	At Cullinan High School there is a computer lab, a classroom, and a sports field. A student named Thobeka, who must have been bored, drew a number line on the ground all the way across the school grounds - you can see it in the picture below. She also labelled the number line with numbers measured in metres. According to the number line, the sports field is at position <i>10 metres</i>, the computer lab is at <i>40 metres</i> and her classroom is at <i>70 metres</i>.  Thobeka walks from the computer lab to her classroom and then to the sports field. What is the total distance that Thobeka walks?	2
3.2	Calculate: $\sqrt{-6 - (-22)}$	3
3.3	Calculate: $10 - \sqrt[3]{-1}$	3
		[8]

QUESTION 4: COMMON FRACTIONS

4.1	Bridget is baking some muffins. She puts $\frac{1}{3}$ of a cup of flour into a bowl. Then she adds another $\frac{3}{4}$ of a cup of flour. How many cups of flour does she use in total? Leave the answer as a mixed fraction.	3
4.2	Calculate the following without using a calculator: $\frac{12}{11} - \frac{1}{22}$	3
4.3	Calculate the following without using a calculator: $\frac{2}{3} \times \frac{1}{7}$	1
4.4	Calculate the following without using a calculator: $\frac{1}{10} \div \frac{2}{11}$	2
		[9]

QUESTION 5: DECIMAL FRACTIONS

5.1	Calculate the following. Leave the answer in decimal form.	
	5.1.1 $\sqrt[3]{0,064}$	3
	5.1.2 $7,1 - (2,13 \times 0,4) \div 2$	3
5.2	Mr. Moloko owns a butchery. He bought 350kg of mutton at R 24,95 per kilogram. He then sells the mutton at R 37,16 per kilogram.	
	5.2.1 Write down an estimation of the following amounts: $R\ 24,95 \approx$ $R37,16 \approx$	2
	5.2.2 Calculate the total extra amount made by Mr. Moloko if he sells the 350kg of mutton to customers.	6
		[14]