

Student's Assessment Name.....

**PRESIDENT'S OFFICE**  
**REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**  
**FRANCISCAN GIRLS SECONDARY SCHOOL**  
**FORM ONE GAUGING EXAMINATION**

**041**

**BASIC MATHEMATICS**

**Time : 02:30 Hours**

**Tuesday 22<sup>nd</sup> October 2024**

**Instructions**

1. This paper consists of **ten (10)** compulsory questions. Each question carries **ten (10)** marks.
2. Show clearly all the workings and answers in the space provided.
3. All writing must be in blue or black ink except drawings which must be in pencil.
4. Where necessary use  $\pi = \frac{22}{7}$

| FOR ASSESSOR'S USE ONLY   |       |                     |
|---------------------------|-------|---------------------|
| QUESTION NUMBER           | SCORE | ASSESSOR'S INITIALS |
| 1                         |       |                     |
| 2                         |       |                     |
| 3                         |       |                     |
| 4                         |       |                     |
| 5                         |       |                     |
| 6                         |       |                     |
| 7                         |       |                     |
| 8                         |       |                     |
| 9                         |       |                     |
| 10                        |       |                     |
| <b>TOTAL</b>              |       |                     |
| <b>CHECKER'S INITIALS</b> |       |                     |

1. (a) Respond the following as instructed
- (i) Write 279404 in expanded form.
  - (ii) Write 46468408 in words.
  - (iii) Round off 21.465 to the nearest hundredths.
- (b) Otieno had 3469 bags of maize, each weighing 90 kg. He sold 2654 of them. How many kilogram of maize was he left with ?
2. (a) A girl spent  $\frac{2}{5}$  of her pocket money on bread and  $\frac{1}{6}$  of the remainder on stationery. If she had Tsh 200 left at the end of the term, how much pocket money did she have at the beginning of the term.

- (b) In a bag containing small balls,  $\frac{1}{4}$  are green,  $\frac{1}{8}$  are blue,  $\frac{1}{12}$  are yellow and the remaining 26 are white. How many balls are blue ?

3. (a) Find the value of  $96045 - 134048 \div 568 + 279455 \times 18$

(b) Find the product of H.C.F and L.C.M of 36, 54 and 90

4. (a) The difference between two complementary angles is  $52^\circ$ .  
Find the angles

- (b) Two angles of a pentagon are  $58^\circ$  and  $83^\circ$ . The other three angles are in the ratio 5:6:8. Find the largest angle

5. (a) Use number line to find the product of  $-3$  and  $-2$

- (b) Show the solution of  $\left|x - \frac{1}{2}\right| > 4$  on a number line

6. (a) An equation of a straight line has a gradient of  $-\frac{1}{5}$ . If one of the point satisfying the equation is  $(2, 1)$ , find its equation in form of  $ax + by + c = 0$

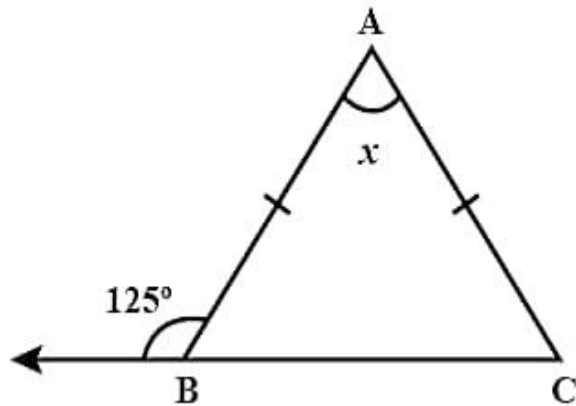
- (b) Use substitution method to solve the simultaneous equation
- $$\begin{cases} 2x - y = 4 \\ 3x + y = 11 \end{cases}$$

7. (a) A man is 21 years older than his son. Five years ago he was four times as old as his son. How old is each now

(b) By selling an article at Tsh. 22,500/= a shopkeeper makes a loss of 10%. At what price must the shopkeeper sell the article in order to get a profit of 10%.

8. (a) The length of a book exceeds its width by 7 *cm*. Calculate the dimensions of the book given that its perimeter is 34 *cm*

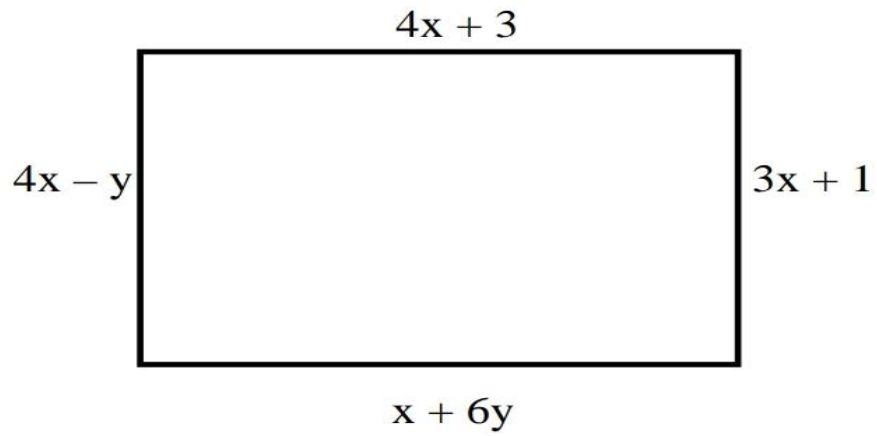
- (b) In the figure below  $\overline{AB} = \overline{AC}$ , Determine the value of  $x^\circ$



9. (a) Sir mlangi borrowed 100000 Tanzanian shillings for 5 years at 10% simple interest. What amount of money did Sir mlangi pay back ?

(b) Anna own a semi circular protractor with a radius 7 cm.  
Find its perimeter

10. The sides of the rectangle shown below are given in cm



- (i) Find the values of  $x$  and  $y$
  
  
  
  
  
  
  
  
  
  
- (ii) Calculate the area of the rectangle.
  
  
  
  
  
  
  
  
  
  
- (iii) Calculate the perimeter of the figure

## **Rough work**

**\*\*\*\*\*ALL THE BEST\*\*\*\*\***

**“The best way of learning Mathematics is through practice”**

**PREPARED BY SIR MLANGI**