SCHOOL BASED ASSESSMENT

JUNIOR SCHOOL

MATHEMATICS
GRADE 7 - 2024

LEARNER'S NAME: _____

ASSESSMENT NUMBER:_____ DATE: _____

SCHOOL NAME: _____

INSTRUCTIONS TO THE LEARNER

Answer all the questions in the spaces provided.

For Teacher's Use Only.

STRAND	QUESTION NUMBER	LEARNER'S SCORE	PERFORMANCE LEVEL
NUMBERS (15mks)	1, 2, 3, 4, 5, 6,7, 8, 9, 10,		
MEASUREMENT (24mks)	11, 12, 13, 14, 17		
GEOMETRY (5mks)	20, 21, 22, 23		
ALGEBRA (2mks)	18, 19		
DATA HANDLING AND PROBABILITY (4mks)	24		

TURN OVER

MATHS GRADE 7

1. Ministry of Health Officers took data of the number of children below 6 years who were vaccinated against polio in a county. The number recorded was 3045197.

   a) Write the number of children recorded in words. (1mk)

   b) Work out the difference between the total value of digit 4 and the total value of digit 5 in the number. (2mks)

2. A group of learners were given the following number cards to form numbers. They used each digit once.

   | 3 | 9 | 0 | 2 | 8 | 5 | 4 | 6 |

   a) Write the smallest 8-digit number that they formed. (1mk)

   b) Identify the place value of digit 2 in the number formed. (1mk)

   c) Classify the number formed as **even**, **odd** or **prime**. (1mk)

3. In one year, the National Traffic and Safety Authority (NTSA) inspected 9672024 vehicles. Round off the number of vehicles inspected to the nearest millions. **(1mk)**

4. Some grade 7 learners from Tumaini Junior school played a number game to create a pattern. The first four learners wrote the numbers: 37, 41, 43, 47. What number did the 5th learner write? **(1mk)**

5. Calculate the value of 30 - 8 x 5 + 33 - 17. **(2mks)**

6. A farmer had 5945 tree seedlings. Each day he planted equal number of tree seedlings. Determine the number of tree seedlings he planted per day if he planted all the seedlings in the month of February 2020? **(2mks)**

7. A milk processing factory packed 15962 packets of milk. 798 packets were issued to learners who visited the factory for educational tour. The remaining packets were sold for sh 75 per packet. How much money was received from the sale of the packets of milk? (2mks)
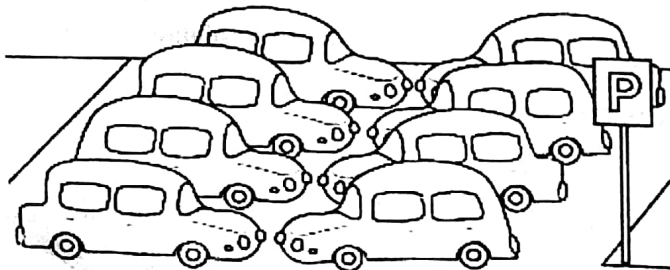
8. A butcher bought meat from a slaughter house. The mass of the meat was estimated to be 765.842kg. Write the place value of digit 2 in the number. (1mk)

9. During a Mathematics lesson on addition of fraction, Machogu was given the following fractions calculations to complete.

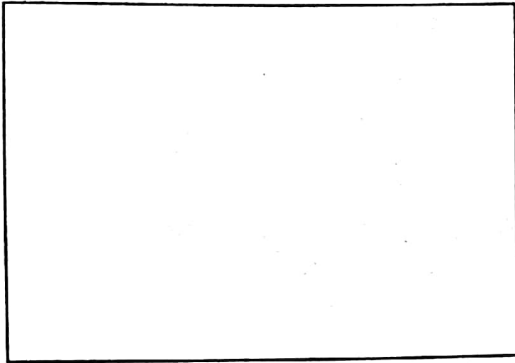$$\frac{\square}{8} + \frac{5}{12} = \frac{19}{24}$$

Determine the number she wrote in the box.

10. The following picture shows the vehicles in Musa's car yard. 8% of the vehicles are cars.
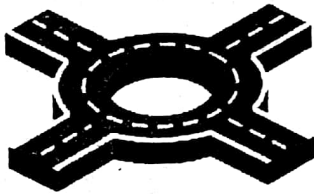

Write the percentage of cars as a decimal. (1mk)

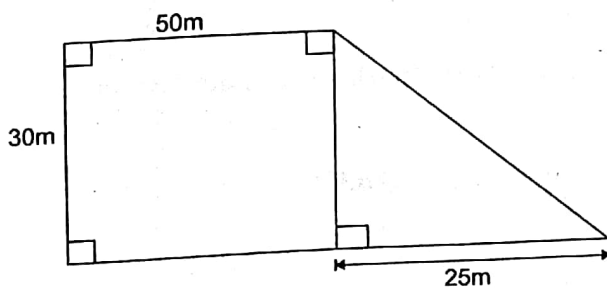11. Mrs Nyakio drew the rectangle shown. She gave it to grade 6 learners to measure the sides.

Measure the sides and determine the perimeter in millimetres. **(2mks)**

12. The picture below shows a roundabout in a certain town. The diameter of the roundabout is 63m. A traffic police officer walked round along the edge.

Calculate the distance she covered if she went round once. (Use $\pi=\frac{22}{7}$). **(2mks)**
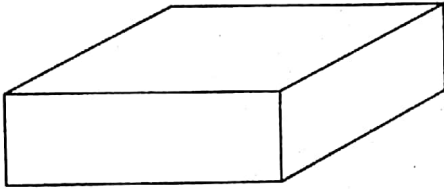
13. Kamau's farm is in the shape drawn below.

Calculate the area of the farm in square metres. **(2mks)**

MATHS GRADE 7

14. Some learners used 28000 millilitres of water to clean their classroom. How many litres of water did they use to clean the classroom? **(1mk)**

15. A doctor began operating on a patient 6 hours 30 minutes after midnight. Write the time in:
    a) 12 hour clock system. **(1mk)**

    b) 24 hour clock system. **(1mk)**

16. A car dealer bought a second hand car for Shs 450000. He spent Shs 185000 to repair it. He sold the car for Shs 904000. How much profit did he make? **(2mks)**

17. Kyalo is employed as a salesperson by a company. He is paid a monthly salary of Shs 60500. His employer deducts Shs 18150 from his salary as a government tax. What type of tax does Kyalo pay?**(1mk)**

18. Ali bought **x** books. He distributed the books to eleven learners. Each learner received more than 12 books.
    a) Form the inequality to represent the information. **(1mk)**

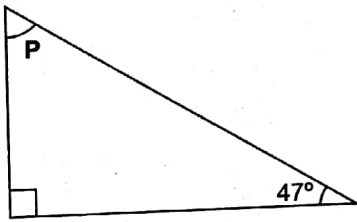   b) Simplify the inequality. **(1mk)**

19. Tom had some fruits. He shared all the fruits among his five friends. If each friend received 13 fruits, how many fruits did he have at the beginning?

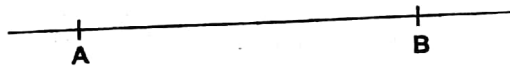20. The diagram shown below represents a carton.

Calculate the sum of the edges and faces of the carton. (1mk)

21. A teacher drew the triangle shown on the chalkboard. He asked the learners to calculate the angle marked P.
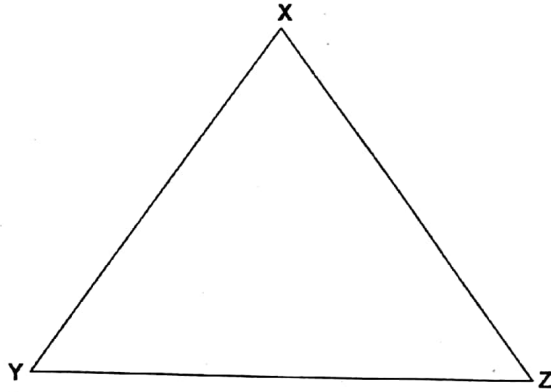

What is the size of the angle marked P in the triangle above? (1mk)

22. During a geometrical construction lesson, Lavender was asked by the teacher to bisect the line AB drawn below.
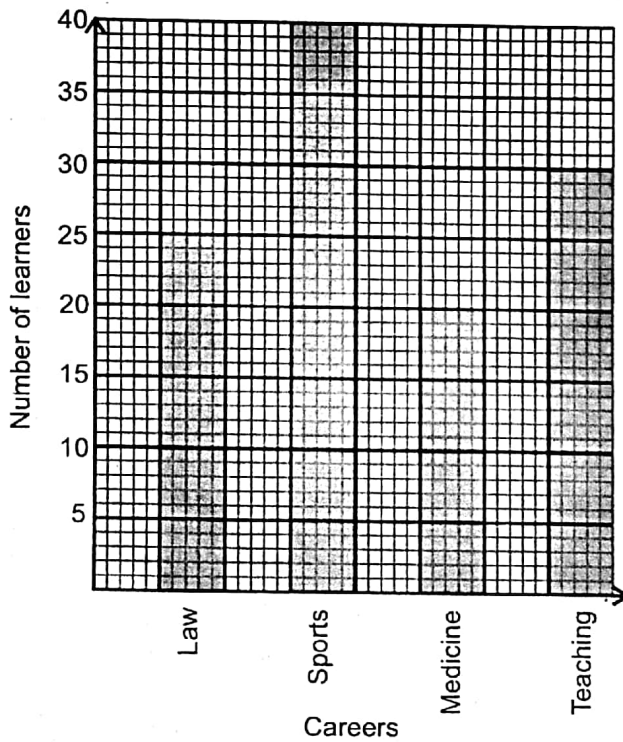

Use a pair of compasses to bisect the line. Measure the size of the angle where the two lines meet. (2mks)

MATHS GRADE 7

23. Triangle **XYZ** below is drawn accurately.

Use a protractor to measure angle **XYZ** and write the size of the angle.**(1mk)**

24. The bar graph below shows how learners in a class of 45 pupils choose their preferred future careers. Each learner was allowed to choose one career.

What is the difference between the most preferred to the least preferred career? **(2mks)**