THE TIMER NATIONAL SERIES

JUNIOR SCHOOL ASSESSMENTS 2024

MATHEMATICAL ACTIVITIES

{8}

JS 0032024

LEARNER'S NAME: .....

ASSESSMENT NO: .....

SCHOOL: ..... DATE: .....

1. Joe wrote **25 040 906** on a card. He then told Rue to write the same number in words. What did Rue write? **(1 mark)**

2. Asha added **456 138** to **248 650** and then rounded off the answer to the nearest tens of thousands. What answer did she get? **(2 marks)**

3. Three families cook chapati after a period of **3** days, **4** days and **5** days respectively. After how long will the three families cook chapati on the same day? **(2 marks)**

4. Abdi arranged the numbers $^{3}/_{8}$, **0.86, 78%** and $^{4}/_{5}$ from the largest to the smallest. What was the correct order? **(2 marks)**

5. A cow is tethered with a rope measuring **3.5 m**. What area in m^2 is the cow able to graze? **(1 mark)**

6. In a certain village, the total number of women and children was **34 603**. The number of women and men was **18 623**. If the number of men was **5 984**, what was the number of children in the village? **(2 marks)**

7. Ben harvested 6 bags of beans and 8 bags of maize. He sold each bag of beans at sh. 4 800 and each bag of maize at sh. 1 500. How much money was he left with after paying sh. 24 500 for school fees? **(2 marks)**

8. Mwende bought **n** oranges and Githinji bought **n + 3** oranges. Kirui bought twice as many oranges as both Mwende and Githinji. Form an algebraic expression to show the total number of oranges bought by the three learners. **(2 marks)**

9. Sylvia simplified the algebraic expression below:
$7(x + 4y + 2) + 5(2x - y + 3)$
What was the simplified form of the expression? **(1 mark)**

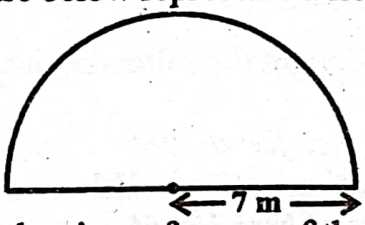
10. What is the value of x in the equation:
$x + 3(x + 3) = 23$? **(1 mark)**

11. There were **m** men in a bus. The number of children in the bus was twice that of men but 15 more than that of women. The total number of men, children and women in the bus was 65. Form a linear equation that can be used to find the number of men in the bus. **(2 marks)**

12. Each of the diagonals of a rectangular garden is 65 m. If one side of the garden measures 25 m, what is the measurement of the other side? **(1 mark)**

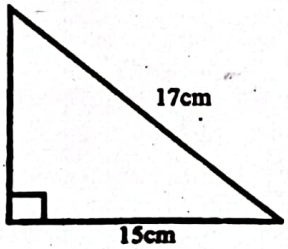
13. The perimeter of a rectangular plot of land is **280** metres. The width of the plot is **60** metres. What is the length of the plot? **(1 mark)**

14. The figure below represents a flower garden.



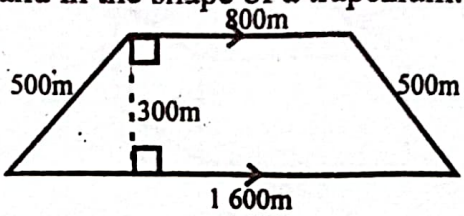
What is the circumference of the flower garden? **(1 mark)**

15. Swaleh prepared a card with the shown measurements.



What was the area of the card? **(2 marks)**

16. The figure below represents a plot of land in the shape of a trapezium.



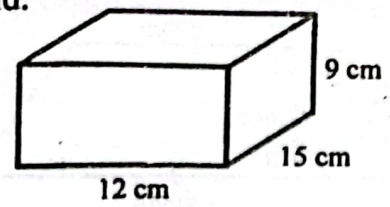
What is the area of the plot in hectares? **(2 marks)**

17. Sarah bought a rectangular tank measuring **2m** by **1.5** m by **1 m**. What was the volume of the tank in **cm^3**? **(1 mark)**

18. A rectangular container is **90** cm long, **60** cm wide and **50** cm high. The container is filled with water to a level of **20** cm high. What is the volume of the empty space in the container? **(2 marks)**

19. A bus was travelling at an average speed of **144km/hr**. What is this speed in **m/s**? **(1 mark)**

20. The diagram below shows an open cuboid.

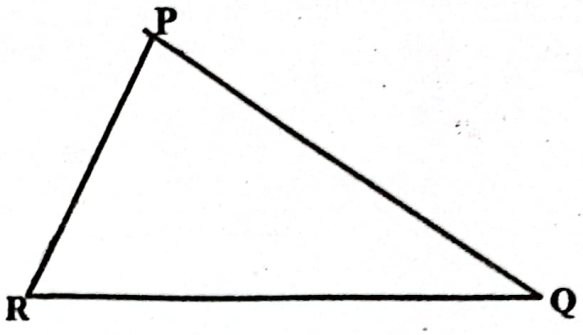


What is the sum of its faces, edges and vertices? **(1 mark)**

21. Mulwa sold an item for sh. 9 900 thus making a 10% loss. What was the cost price of the item? **(2 marks)**

22. A company gives a commission on sales above sh. 150 000. In a certain month, a sales girl received a commission of sh 42 500 after selling goods worth 1 000 000. What was the percentage commission? **(2 marks)**

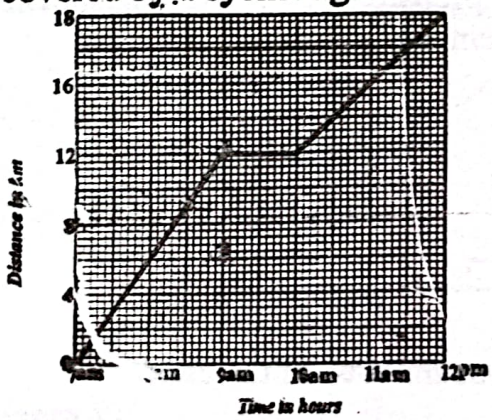
23. The diagram below shows a paper cutout drawn to scale.



Use a protractor to measure angle QRP. **(2 marks)**

24. Kotini bought the following items from a kiosk:
4 kg of rice for sh. 760.
2½ kg of meat @ sh. 520.
3 loaves of bread @ 65.
How much did he pay for the items? **(2 marks)**

25. The travel graph below shows the distance covered by a cyclist against time.



What distance did he cover between 10 am and 12am? **(2 marks)**