Quizmine

Mock Examination	2 & 1	
August 2022		Name:.........................
		Index Number:.........................
Objectives		
1.6hours		

Mock Examination

Opoku Ware School

1. Which of the following sets is well defined?

2. If set B is a subset of set A, then

3. Given that (23 x 82) x 79 = 148994, find the exact value of (2.3 x 82) x 7.9.

4. Simplify $1/2 (11/2 + 3/4 \div 1/4)$

5. Mr. Young withdrew some money from the bank. He gave $\frac{1}{2}$ of it to his son and 1/3 to his daughter. If he had GHC500.00 left, how much did he take from the bank.

6. In an examination 60% of the candidates passed. The number of candidates who passed was 240. How many candidates failed.

7. Simplify -27 + 18 –(10 – 14) –(-2)

8. Esi and Kwesi are 12 and 8 years old respectively. They share 60 mangoes in the ratio of their ages. How many mangoes does Esi get?

9. It takes 6 students 1 hour to sweep their compound. How long will it take 15 students to sweep the same compound.

10. A housing agent makes a commission of GHC103,500.00 when he sells a house for GHC690,000.00. calculate the percentage of his commission.

11. A simple interest of GHC37,500.00 is earned on an amount of GHC500,000.00 for 3 years. Find the rate of interest per annum.

12. Simplify (8x2 y3) (3/8xy)

13. Factorize xy + 5x + 2y + 10

14. Which of the following geometric figures is the plane shape of a cube?

15. A rectangular box has length 20cm, width 6cm and height 4cm. Find how many cubes of size 2cm that will fit into the box.

16. Find the rule of the mapping

17. In the diagram above, length of PS = length of SQ and angle SQR = 112°. Find the value of x.

18. The point (4, 5) is translated to the point (3, 1). What is the translation vector?

19. Ama is 9 years older than Kwame. If Kwame is 18 years old. Find the ratio of the age of Kwame to that of Ama.

20. List the members of the set2 ≤ x ≤ 5

21. Osei bought a hat for GHC5.00. He sold it to Yaovi at a profit of 20%. How much did Yaovi pay for the hat?

22. A football field is 120m long and 75m wide. What is the perimeter of the field.

23. Expand (a + 4)(a + 6)

24. if $q = ut + \frac{1}{2} ft$, find q when u = 20, t = 10 and f = 15

25. If a = 22 x 23 $\div$ 24, find the value of a.

26. Adjoa and Ama share GHC600.00 between them in the ratio 3:2. Find Adjoa's share.

27. If 32x – 2 = 81, find the value of x.

28. Find 12 $\frac{1}{2}$ % of GHC80.00

29. If vector m = $\frac{3}{2}$ and n = $\frac{-1}{3}$ Find m - 2n