

STUDY GUIDE**Answer all Questions****N/B: The use of calculator and phones are not allowed in the examination hall.****TIME: 45 minutes****YEAR 7**

- What is the cost of ~~₦~~5.70 per meter of 30cm? (a) ~~₦~~2.35 (b) ~~₦~~2.13 (c) ~~₦~~1.71 (d) ~~₦~~1.50
- Find in meters the length of ribbon that will be required to make 200 pieces of ribbon, if each ribbon is 8.3m long (a) 4.5m (b) 8.5m (c) 10.6m (d) 16.6m
- Find in milliliters, the mean average of 3 bottles containing 1.3 litres, 0.9 litres and 0.5 litres (a) 900ml (b) 850ml (c) 800ml (d) 750ml
- What fraction of income will I have if I spent $\frac{1}{2}$ of my income on housing, $\frac{1}{4}$ of it on food and $\frac{1}{8}$ of it on transportation? (a) $\frac{1}{4}$ (b) $\frac{1}{8}$ (c) $\frac{2}{5}$ (d) $\frac{3}{8}$
- If 200g of mushroom cost 48 kobo, what is the price of the mushroom per half kilogram? (a) ~~₦~~1.50 (b) ~~₦~~1.30 (c) ~~₦~~1.20 (d) ~~₦~~2.50
- Simplify $\frac{4}{14}$ of $\frac{5}{8} \times 6 + 15 - 10$ (a) 6 (b) 3 (c) 5 (d) 4
- The sum of two numbers is 37 and the difference of their squares is 185. What is the difference between the two numbers? (a) 3 (b) 4 (c) 5 (d) 10
- Simplify $\sqrt{64} - \sqrt{36}$ (a) -2 (b) 2 (c) 0 (d) 1
- If the sum of the square of 3 consecutive numbers is 365, what is the sum of the numbers? (a) 33 (b) 36 (c) 30 (d) 45
- Simplify the algebraic expression $\frac{11}{15z} - \frac{11}{20z}$ (a) $\frac{11z}{60}$ (b) $\frac{10}{60z}$ (c) $\frac{11}{60z}$ (d) $\frac{11}{30z}$
- Express 160 as a product of its prime factor (a) 22×5 (b) $2^5 \times 5$ (c) 2×5 (d) 24×5
- Find the common factors of 9, 15 and 21 (a) 3, 5 (b) 1, 3 (c) 3, 7 (d) 3
- Find the mean of the following amount of money: ~~₦~~329, ~~₦~~3530, ~~₦~~1900 and ~~₦~~250 (a) ~~₦~~1,025.25 (b) ~~₦~~1,502.25 (c) ~~₦~~1,205.25 (d) ~~₦~~1,520.25
- Express 4500cm^3 in litres (a) 0.4 litres (b) 450 litres (c) 4.5 litres (d) 45 litres

15. A box of volume of 320cm^3 is 16cm long and 10cm wide. What is the height of the box? (a) 3cm (b) 7cm (c) 2cm (d) 5cm
16. Change $\frac{13}{4}$ to mixed fraction (a) $3\frac{1}{4}$ (b) $4\frac{1}{4}$ (c) $4\frac{1}{2}$ (d) $2\frac{3}{4}$
17. The population of a school is 2,864. If there are 1, 637 boys in the school, how many girls are in the school? (a) 1,227 (b) 227 (c) 627 (d) 527
18. What is the place value of 8 in the number 48246? (a) Units (b) Thousands (c) Tens (d) Hundreds
19. Simplify $\frac{5}{5} + \frac{7}{8}$ (a) $1\frac{17}{24}$ (b) $\frac{1}{12}$ (c) $-\frac{1}{24}$ (d) $\frac{12}{14}$
20. Which of the following fraction is equivalent to $\frac{2}{5}$? (a) $\frac{3}{5}$ (b) $\frac{2}{10}$ (c) $\frac{4}{10}$ (d) $\frac{5}{10}$
21. Change $4\frac{1}{4}$ to improper fraction (a) $\frac{9}{4}$ (b) $\frac{17}{4}$ (c) $\frac{1}{4}$ (d) $\frac{8}{4}$
22. Find the missing numbers in the series 5, 16, 27, 38, ____, ____, 71, 82, 93 (a) 50, 83 (b) 40, 66 (c) 51, 82 (d) 49, 60
23. What is $\frac{2}{3}$ of 81 sweets? (a) 27 (b) 54 (c) 81 (d) 40
24. What is 25% of 50kg of rice? (a) 12.5kg (b) 15.2kg (c) 100kg (d) 40kg
25. How much did Nwanneka and Chigoziri save money in the ratio of 3:5. If Chigoziri saved ₦10, how much did Nwanneka saved? (a) ₦6 (b) ₦50 (c) ₦30 (d) ₦15