

maths — ANSWER KEY (Not for Students)

JHS 3 | Mathematics | First Term — 2025-2026 | Duration: 60 minutes | Total Marks: 60

Instructions:

ANSWER KEY

1. What is the name for a triangle with all sides equal? → **C. Equilateral**
2. Find the equation of a line with slope $\frac{2}{3}$ passing through (3 → **$y = (\frac{2}{3})x + 3$**).
3. Solve the equation $2x - 3 = 15$. → **D. 9**
4. If you answer 80% of 20 questions correctly → **18**.
5. Under PNDC Law 247 → **5.5%**.
6. Which data collection method involves asking people questions? → **C. Interview**
7. Calculate 5.2×100 . → **D. 520**
8. What is the volume of a cube with side 3cm? → **C. 27cm^3**
9. Which property is shown by $a \times (b + c) = (a \times b) + (a \times c)$? → **C. Distributive**
10. Simplify $5x + 3x$. → **A. $8x$**
11. If total cost (t) is proportional to the number of items (n) at constant price (p) → **$n = tp$** .
12. What type of fraction is $\frac{7}{4}$? → **B. Improper**
13. What is the formula for the sum of interior angles of an n-sided polygon? → **B. $(n-2) \times 180$**
14. The VAT rate in Ghana is 12.5%. If an item is GH¢4500 VAT inclusive → **GH¢3950**.
15. What is $\frac{2}{3}$ of 150? → **C. 100**
16. Write 0.75 as a percentage. → **B. 75%**
17. Factorize $3x + 4xy$. → **A. $x(3 + 4y)$**
18. What is the place value of 7 in 3 → **Thousands**.
19. What is 15% of 200? → **C. 30**
20. What is the perimeter of a square of side 5cm? → **A. 20cm**
21. If $2x = 64$ → **7**.
22. If $a = 5$ and $b = 3$ → **40**.
23. Which of the following is NOT a parallelogram? → **D. Trapezium**

24. What type of angle is 180° ? → **D. Straight**
25. What is the value of π approximated to three decimal places? → **B. 1.414**
26. The sum of the interior angles of a hexagon (6 sides) is... → **B. 720°**
27. What is the coefficient of y in $5xy$? → **B. $5x$**
28. Make x the subject of the formula $y = mx + c$. → **A. $x = (y - c)/m$**
29. Simplify 6×2 . → **A. 12**
30. What is the complement of a 40° angle? → **A. 50°**
31. Calculate $5/8 \div 2/3$. → **A. $15/16$**
32. Simplify $12 \times (5 \times 4)$ using the associative property. → **D. All of the above**
33. Find the simple interest on GH¢4500 at 3% per annum for 3 years. → **A. GH¢405**
34. The graph showing proportional relationships is a... → **B. Straight line through the origin**
35. What is the bearing of East from North? → **A. 090°**
36. What is the back bearing of 060° ? → **C. 240°**
37. What is the circumference of a circle with diameter 14cm? ($\pi = 22/7$) → **B. 44cm**
38. Simplify $18 \div 6 \times (4 - 3) + 6$. → **B. 9**
39. Graph the solution of $x \leq 4$ on a number line. (Conceptual) → **C. Closed circle at 4 shading right**
40. What is the value of π approximated to one decimal place? → **B. 3.5**
41. What is 56734 correct to two significant figures? → **C. 57000**
42. Round 975.8674 to three decimal places. → **B. 975.868**
43. Simplify 3×3 . → **A. 9**
44. Find the equation of a line with slope 2 and y-intercept -3. → **C. $y = 2x - 3$**
45. What is the decimal equivalent of $1/8$? → **B. 0.125**
46. Calculate $3/4 + 7/8$. → **B. $13/8$**
47. Express 0.00567 in standard form. → **A. 5.67×10^{-3}**
48. What is the value of $5^2 \times 5^3$? → **A. 5^5**
49. A trader sells oranges from two baskets. Basket A had 85 oranges and she sold 48. She sold 59 oranges from basket B and was left with the same number as in Basket A. How many

were originally in Basket B? → **A. 96**

50. A student scores 70 and 76. What score in the third test gives an average of 80 or higher? → **C. 94**

51. Simplify $34 \div 32 + 40 - 23 \times 32 \div 9$ using BODMAS. → **C. 38**

52. Solve the inequality $(1/2)(5x - 4) < x + 11/2$. → **A. $x < 5$**

53. A man paid GH?290 for 11 books. Geography books cost GH?30 and history books cost GH?20. How many geography books did he buy? → **C. 7**

54. The price of a jacket is three times that of a shirt. A jacket costs GH?560.65. Mr Mensa bought two jackets and four shirts. What is the total cost correct to two decimal places? → **C. GH?1868.83**

55. What is the name of a 5-sided polygon? → **B. Pentagon**

56. Calculate $3.6 \div 100$. → **A. 0.036**

57. How many sides does a decagon have? → **C. 10**

58. What is the value of π (pi) approximated to two decimal places? → **B. 3.14**

59. What is the area of a circle with radius 7cm? ($\pi=22/7$) → **A. 154cm²**

60. Solve the inequality $2x + 7 > 5/2$. → **A. $x > -2.25$**