



or



FIRST TERM EXAMINATION

SUBJECT: MATHEMATICS

CLASS: JHS 1

2 hours

SECTION B

[60 marks]

Answer only three questions from this section

1. (a) Write these numerals in words:
 (i) 1,841,943,780
 (ii) 2,011 987

- (b) Copy and complete the table.

| 78.4604783 | Round up | Round off | Round down |
|------------------|----------|-----------|------------|
| Nearest hundreds | | | |
| Nearest thousand | | | |

- (c) Use partitioning (or expanded form) and place value system to add 327.6 and 54.13
- (d) Draw a 2 by 3 lattice for solving 345×27 .
2. (a) Find the L. C. M of 10, 15 and 20.
- (b) Write these numbers as a product of prime factors.
 (i) 45
 (ii) 72
- (c) Round the following numbers to the given significant figures.
 (i) 746.9781 (5 significant figures)
 (ii) 0.004834 (2 significant figures)
 (iii) 94164kg (4 significant figures)
- (d) Mrs. Armah bought 45.75 metres of linen for her five children. If they share the material equally, how many metres of linen did each receive?
3. (a) Order the following numbers from the least to the greatest.
 (i) 0.098, 0.985 and 0.123
 (ii) $\frac{5}{6}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{1}{4}$
- (b) Calculate the following when necessary, round your answer to the nearest tenth.
 (i) 0.2% of 15000
 (ii) 28% of 40
- (c) A cell phone which regularly sells for GH¢450.00 is on sale for 40% off. How much would you pay for the phone?

- (d) Find the H. C.F. of 40 and 60.
4. (a) Simplify the following.
- (i) $2 \div \left(\frac{15}{63} \div \frac{6}{7}\right)$
- (ii) $7\frac{2}{3} - 4\frac{5}{6} + 2\frac{3}{8}$
- (iii) $5\frac{7}{15} - 2\frac{2}{3} + 1\frac{5}{12}$
- (b) Find the value of a number written in the following forms.
- (i) 6^3
- (ii) 3^4
- (iii) $2^{\frac{1}{5}}$
- (c) Round the following numbers to the given significant figures.
- (i) 84.4099500 (5 significant figures)
- (ii) 0.002587 (2 significant figures)

SECTION A

Answer all questions from this section.

- | | |
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| <p>1. Which of the following is true?</p> <p>A. $1300850700 = 1300850700$</p> <p>B. $9487,637 > 5113487637$</p> <p>C. $1,300,890,800 > 1,500,402,300$</p> <p>D. $497233 \neq 497233$</p> | <p>6. Perform the operation $7 \times (10 + 5)$</p> <p>A. 22 B. 105</p> <p>C. 205 D. 75</p> |
| <p>2. Round down 2846,655 to the nearest ten thousand.</p> <p>A. 2847000 B. 2847000</p> <p>C. 2840000 D. 2800,000</p> | <p>7. Find the cost of three 5kg bags of rice at GH¢2.00 per kg</p> <p>A. GH¢60.00 B. GH¢6.00</p> <p>C. GH¢600.00 D. GH¢600.00</p> |
| <p>3. Write 1,056,874 in words.</p> <p>A. One million fifty-six thousand eight hundred and seventy-four</p> <p>B. One hundred million fifty-six thousand eight hundred and seventy-four</p> <p>C. One hundred and fifty-six thousand eight hundred and seventy-four</p> <p>D. Ten thousand fifty-six thousand eight hundred and seventy-four</p> | <p>8. The area of a square board is 81cm^2. What is its perimeter?</p> <p>A. 9cm B. 13cm</p> <p>C. 48cm D. 36cm</p> |
| <p>4. Express 587,386 to five significant figures.</p> <p>A. 85744 B. 85748</p> <p>C. 857490 D. 85739</p> | <p>9. 595 is divisible by</p> <p>A. 2 B. 8</p> <p>C. 7 D. 9</p> |
| <p>5. Correct 745.9674 to three decimal places</p> <p>A. 745.967 B. 745.968</p> <p>C. 745.987 D. 745.978</p> | <p>10. Ebo weighs 28.6kg. His father weighs four times as heavy. What is the total weight of Ebo and his father?</p> <p>A. 140kg B. 143kg</p> <p>C. 114.4kg D. 85.8kg</p> |
| | <p>11. Find the value of $-1 \frac{1}{2^5}$</p> <p>A. $\frac{1}{16}$ B. $\frac{1}{4}$</p> <p>C. $\frac{1}{8}$ D. $\frac{1}{32}$</p> |

12. Express 2700 as a product of prime numbers.
 A. $2^2 \times 3^2 \times 5^2$ B. $2 \times 3^3 \times 5^2$
 C. $2^2 \times 3^3 \times 5^2$ D. $2 \times 3^2 \times 5^3$
13. Find the L. C. M of 10, 15 and 25.
 A. 90 B. 120
 C. 150 D. 300
14. Write two hundred and two million, two thousand and two in figures.
 A. 202,002,202
 B. 202,020,222
 C. 202,022,202
 D. 202,200,202
15. What is the value of 7 in the number 832713?
 A. Seven thousand
 B. Seven hundred
 C. Seventy
 D. Seven
16. Which of the following is the set of prime factors of 12?
 A. {1, 2, 4, 6} B. {1, 2, 3}
 C. {2, 3, 4, 6} D. {2, 3}
17. Find the Highest Common Factor of 48, 60 and 96.
 A. 48 B. 36
 C. 24 D. 12
18. Simplify $\frac{1}{2} \left(1\frac{1}{2} + \frac{3}{4} \div \frac{1}{4} \right)$
 A. $1\frac{1}{2}$ B. $2\frac{1}{4}$
 C. $2\frac{3}{4}$ D. $4\frac{1}{2}$
19. Arrange the following fractions in descending order. $\frac{3}{4}, \frac{5}{8}, \frac{4}{5}, \frac{13}{20}$
 A. $\frac{4}{5}, \frac{3}{4}, \frac{13}{20}, \frac{5}{8}$ B. $\frac{4}{5}, \frac{5}{8}, \frac{3}{4}, \frac{13}{20}$
 C. $\frac{5}{8}, \frac{4}{5}, \frac{3}{4}, \frac{13}{20}$ D. $\frac{3}{4}, \frac{5}{8}, \frac{4}{5}, \frac{13}{20}$
20. Evaluate $\left(\frac{2}{3} - \frac{1}{4} \right) \div \frac{5}{6}$
 A. $\frac{1}{2}$ B. $\frac{1}{5}$
 C. $\frac{5}{12}$ D. $\frac{25}{72}$
21. There are 12 boys and 18 girls in a class. Find the fraction of boys in the class.
 A. $\frac{2}{5}$ B. $\frac{3}{5}$
 C. $\frac{2}{3}$ D. $\frac{3}{4}$
22. Express 0.625 as a fraction in its lowest term.
 A. $\frac{3}{4}$ B. $\frac{1}{4}$
 C. $\frac{1}{2}$ D. $\frac{5}{8}$
23. Simplify $348.94 - 188.34$.
 A. 60.60 B. 60.68
 C. 160.60 D. 200.60
24. Express $\frac{1}{25}$ as a decimal fraction.
 A. 0.4 B. 0.004
 C. 0.04 D. 0.0004
25. Write 4687.02 in standard form.
 A. 46.8702×10^3
 B. 46.8702×10^4
 C. 4.68702×10^5
 D. 4.68702×10^3
26. Correct 0.00025 to one significant figure
 A. 0.003 B. 0.2
 C. 0.0002 D. 0.0003
27. Find $\frac{2}{3}$ of GH¢60.00
 A. GH¢400.00 B. GH¢40.00
 C. GH¢4.00 D. 4000.00
28. Express 30cm as a percentage of 2m.
 A. 0.15% B. 1.5%
 C. 67% D. 15%
29. Ama scores $\frac{17}{25}$ in a Mathematics test. Express her score as a percentage.
 A. 17% B. 85%
 C. 34% D. 68%
30. What is 16% of GH¢500,000.00?
 A. GH¢80.00
 B. GH¢8000.00
 C. GH¢80,000.00
 D. GH¢420,000.00
31. Kojo had 300 apples. He sold 240 of them. What percentage off the apples are left?

- A. 8% B. 20%
C. 25% D. 26.7%

32. A salesman gets paid 35% commission. How much commission does he make on sales of GH¢700.00?

- A. GH¢245.00
B. GH¢2450.00
C. GH¢24500.00
D. GH¢2405.00

33. If 2 litres of cola cost GH¢18.00. Find the cost of 3 litres.

- A. GH¢27.00 B. GH¢270.00
C. GH¢9.00 D. GH¢90.00

34. If $a:27 = 6:18$, find a.

- A. 4 B. 9
C. 51 D. 81

35. Baba and Ama shared GH¢6000.00 between themselves in the ratio 3:2. Find Baba's share.

- A. GH¢36.00
B. GH¢36000.00
C. GH¢306.00
D. GH¢3600.00

36. Express the ratio of 64cm to 48cm in its simplest form.

- A. 3:4 B. 4:3
C. 16:12 D. 12:16

37. Simplify $3 \div \frac{1}{4}$

- A. $3\frac{1}{2}$ B. 12
C. $\frac{3}{4}$ D. $1\frac{1}{4}$

38. There are 132 learners in a class. $\frac{2}{3}$ of the learners are girls, how many boys are in the class?

- A. 88 B. 44
C. 140 D. 114

39. Find the H. C.F of $2^3 \times 3^2$ and $2^4 \times 3$

- A. 24 B. 72
C. 48 D. 108

40. Which of the following numbers is a prime number greater than 23?

- A. 17 B. 24
C. 25 D. 29

