

2 & 1

FINALPREPS
EXAMINATIONS CONSORTIUM



END OF TERM 2 EXAMINATIONS

MATHEMATICS

PAPER 2

Essay

Answer four questions only.

All questions carry equal marks

All working must be clearly shown. Marks will not be awarded for correct answers without corresponding working.

1. a. A pen costs GH¢ 3.75 and a pencil cost GH¢ 1.20. How much will be paid for nine pens and thirteen pencils?

b. Express 18,8999 in

- i) 5 significant figures ii) 2 decimal places
iii) Nearest whole number

c. Find 43% of 19100

d. Simplify $2\frac{5}{6} - 1\frac{3}{4}$

2. a. Write 45,029,108,019 in words.

- b. Mr. Nti harvested 85,006 coconuts from his farm. He sold 47,413 of the coconuts. i) Find the number of coconuts left
ii) Correct your answer to 4 significant figures
- c. Ephraim harvested 36,405 onions from his farm on Monday and 67,017 onions on Tuesday
i) How many onions did she harvest on both Monday and Tuesday?
ii) Write the answer to 3 significant figures.
- d. Simplify the following
i) 22.5×100
ii) 85.3×0.01
3. a. A farmer harvested 105kg and 120kg of rice. He wants to sell them in equal amount. Find the greatest quantity he can sell the rice.
- b. A tiler bought three bags of cement of mass 54kg, 72kg and 90kg respectively. He wants to use the cements equally for tiling a floor. What is the largest mass of cement he can use?
- c. A basket had a collection of 15 balls. 10 of them were yellow and the rest were blue. What is the fraction of blue balls in the basket? Write the fraction in its simplest form.
- d. Mary played for a total of 60 minutes. She spent $\frac{1}{5}$ of the time playing chess and the rest of the time playing video game. How many minutes did Mary play the video game?
4. a. Arrange the following fractions in ascending order of magnitude.
 $\frac{4}{7}, \frac{1}{2}$ and $\frac{3}{5}$.
- b. There are 9 juniors and 15 seniors in a team. What fraction of the team are seniors? Give your answer in lowest form.
- c. If 15% of the length of a rope is 720m, find half of the length of the rope.
- d. Express $(\frac{13}{15} - \frac{7}{10})$ as a percentage.
5. a. Simplify $(\frac{1}{4} + \frac{1}{12}) + (\frac{2}{3} - \frac{5}{8})$
- b. Madam Comfort organised a test for a class of 42 learners. $\frac{1}{3}$ of them passed. Find the number of learners who failed the test.
- c. In the crowd at a classico match, there were 28,000 Real Madrid supporters and 22,000 Barcelona supporters. What percentage of the crowd supported each team?
d. Use the idea of distributive property to find 107×8 mentally.
6. a. Find 50×98 using the idea of halving and doubling.

- b. A carpenter bought $8\frac{3}{5}kg$ of nails, he used $3\frac{7}{9}$ kg of the nails. Find the fraction of nails left.
- c. Sir Stephen fetched $\frac{7}{8}$ of a barrel with water for an experiment. At the end of the day, the fraction of water left in the barrel was $\frac{1}{3}$. Find the fraction of water used for the experiment.
- d. There are 132 learners in a class. If $\frac{2}{3}$ of the learners are girls, how many boys are in the class

PAPER 1
OBJECTIVE TEST

Answer All Questions

Each question is followed by four options lettered A to D. Find out the correct option for each question and shade in pencil on your answer sheet the answer space which bears the same letter as the option you have chosen. Give only one answer to each question

1. Write five hundred and twenty million, four thousand and two in figures

A. 502,004,200	C. 524,004,002
B. 520,004,002	D. 524,004,200
2. What is the result of increasing 2507 by 964?

A. 3571	C. 3481
B. 3472	D. 3471
3. Simplify $12 - 7 - (-5)$

A. -10	C. -2
B. 10	D. 0
4. A carpenter bought three items, pickaxe GH¢ 47.50, shovel GH¢ 100 and nails GH¢ 35.70 in a shop. What is the total cost of items round to the nearest Ghana cedi?

A. GH¢ 184.00	C. GH¢ 183.00
B. GH¢ 185.00	D. GH¢ 182.00
5. All the following are multiples of 4 except,

A. 2	C. 16
B. 4	D. 8
6. Jessica has an amount of GH¢ 7321 in her account. Write her money in expanded form.

A. $700 + 3000 + 20 + 1$	
B. $7000 + 300 + 21$	
C. $700 + 300 + 20 + 1$	
D. $7000 + 300 + 20 + 1$	
7. Write the height of a rod 73.678cm to the nearest tenth.

A. 70.000cm	C. 73.68cm
B. 73.700cm	D. 70.678cm

8. If Roselyn has 50 apples and she gives 20 apples to her friend, how many apples does she have left?

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|----|----|----|----|
| A. | 30 | C. | 70 |
| B. | 50 | D. | 20 |

9. Correct 0.00642 to four decimal places.

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|----|---------|----|--------|
| A. | 0.0642 | C. | 0.0064 |
| B. | 0.00642 | D. | 0.064 |

10. Subtract 9,268 from 27,403 and round the answer to the nearest thousand.

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|----|--------|----|---------|
| A. | 18,135 | C. | -18,135 |
| B. | 18,000 | D. | 27,400 |

11. David's father asked him to count the number of candles in 6 packs of candle which contains 8 sticks each. How many candle sticks are there in total?

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|----|----|----|----|
| A. | 48 | C. | 2 |
| B. | 14 | D. | 38 |

12. Ama gave $\frac{8}{20}$ of her goods to Abena. What fraction of goods were left for Ama?

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|----|---------------|----|---------------|
| A. | $\frac{3}{5}$ | C. | $\frac{2}{5}$ |
| B. | $\frac{1}{5}$ | D. | $\frac{4}{5}$ |

13. In office, $\frac{2}{3}$ of the telephone bill is paid by Tom, $\frac{1}{5}$ by Azuma and the remaining by Tina. What fraction is paid by Tina?

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|----|----------------|----|----------------|
| A. | $\frac{2}{15}$ | C. | $\frac{1}{3}$ |
| B. | $\frac{3}{4}$ | D. | $\frac{7}{15}$ |

14. Write 39.9748km correct to three significant figures.

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|----|--------|----|----------|
| A. | 39.9km | C. | 39.974km |
| B. | 40.0km | D. | 39.975km |

15. Correct 0.00855 to four decimal places.

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|----|---------|----|---------|
| A. | 0.00850 | C. | 0.00805 |
| B. | 0.0086 | D. | 0.00086 |

16. The measurement taken by a gardener of a tree is 624.93m high. What is the value of the digit 9?

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|----|-----------|----|---------|
| A. | 9 hundred | C. | 9 units |
| B. | 9 tens | D. | 9 tenth |

17. Write GH¢ 35,632.00 to the nearest thousand cedis

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|----|---------------|----|---------------|
| A. | GH¢ 36,000.00 | C. | GH¢ 35,600.00 |
| B. | GH¢ 35,000.00 | D. | GH¢ 36,032.00 |

18. Express $\frac{5}{16}$ as a decimal fraction.
- A. 0.3333 C. 0.3125
B. 0.2667 D. 0.2500
19. The cost of 12 note books is GH¢ 54.84. Find the cost of one note book.
- A. GH¢ 5.57 C. 4.57
B. GH¢ 4.67 D. 3.57
20. Write two hundred thousand and two in figures.
- A. 20,002 C. 2002
B. 200,002 D. 200,020
21. What is the place value of the digit 2 in the number 320,501?
- A. Hundreds C. Hundred
B. Ten thousands D. Ten thousand
22. How many significant figures are there in the number, 0.05009700?
- A. 3 C. 8
B. 5 D. 7
23. Add 1.2 and 10.686 and round your answer to two decimal places.
- A. 11.69 C. 11.80
B. 11.90 D. 11.89
24. Round up 7234.678 to the nearest thousands
- A. 7000.25 C. 8000
B. 7234.48 D. 7000
25. Round down 6934.259 to the nearest hundreds.
- A. 6934.25 C. 6900
B. 6900.26 D. 7000
26. Evaluate $81 \times \frac{1}{300}$
- A. 0.27 C. 0.81
B. 27 D. 24300
27. An iron rod of length 15m is divided into 12 equal parts. How long is each part?
- A. 0.80m C. 1.50m
B. 1.25m D. 3.00m
28. Simplify 25.89×10^2
- A. 0.2589 C. 25890
B. 25.8900 D. 2589

29. Simplify 0.02589×1000

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|----|-----------|------------|
| A. | 0.0002589 | C. 2589 |
| B. | 25.89 | D. 2589000 |

30. How many significant figures are there in the number, 10050000?

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|----|---|------|
| A. | 2 | C. 4 |
| B. | 3 | D. 8 |

31. What is the place of the digit 0 in the number 50.623?

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|----|-------|----------|
| A. | Ones | C. Tenth |
| B. | Oneth | D. Zero |

32. How many ₦5 notes can you get from ₦65.50?

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|----|----|-------|
| A. | 11 | C. 11 |
| B. | 12 | D. 13 |

33. Two billion, two million, eight hundred and fifty-five thousand, and one in figure is?

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|----|---------------|-------------------|
| A. | 202,855,001 | C. 20,002,855,100 |
| B. | 2,002,855,001 | D. 2,020,855,100 |

34. How much is ₦60.00 greater than the sum of ₦26.00 and ₦ 14.00?

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|----|--------|-----------|
| A. | ₦20.00 | C. ₦50.00 |
| B. | ₦30.00 | D. ₦60.00 |

35. Express $\frac{2}{5}$ as a percentage.

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|----|-----|--------|
| A. | 30% | C. 37% |
| B. | 36% | D. 40% |

36. What is the difference between the LCM and HCF of 16 and 20?

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|----|----|-------|
| A. | 80 | C. 74 |
| B. | 76 | D. 62 |

37. Express 7.34689 in 3 significant figures.

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|----|-------|---------|
| A. | 7.34 | C. 7.35 |
| B. | 7.347 | D. 7.45 |

38. The number 1204 is divisible by...

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|----|---|------|
| A. | 6 | C. 7 |
| B. | 9 | D. 8 |

39. Round off 0.89672 to the nearest hundredths.

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|----|------|---------|
| A. | 0.8 | C. 0.9 |
| B. | 0.89 | D. 0.90 |

40. Simplify $424.9 \times \frac{1}{100}$

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|----|----------|-----------|
| A. | 0.004249 | C. 0.4249 |
| B. | 0.04249 | D. 4.249 |