

BASIC EDUCATION CERTIFICATE EXAMINATION BECE JUNE 2018

MATHEMATICS

TIME ALLOWED: $1\frac{1}{2}$ HOURS

INSTRUCTIONS TO CANDIDATES

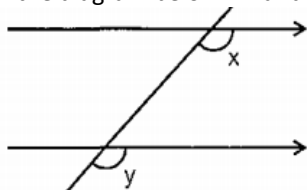
PLEASE DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO. WHILE WAITING, READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. Write your Centre and Examination Numbers, Name, the Name of your School and the Subject in the spaces provided on the Answer Sheet.
2. Read each question carefully before answering it.
3. **DO NOT** waste time on any question; if you find one difficult, go on to others and finish them before you come back to the difficult one(s).
4. Please, work completely on your own. **Remember, Examination Malpractice is a serious criminal offence, do not be involved.**

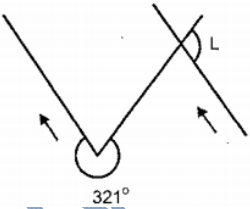
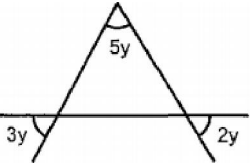
SECTION A (OBJECTIVE)

1. A cuboid has ... vertices.
A. 11 B. 10 C. 9 D. 8

2. In the diagram below $\angle x$ and $\angle y$ are



- A. Alternate angles
B. Corresponding angles
C. Transversal angles
D. Vertically angles
3. A prime number has how many factors?
A. 1 B. 2 C. 3 D. 4
4. Find the H.C.F of 18, 24 and 32.
A. 8 B. 6 C. 4 D. 2
5. Evaluate $\sqrt{5} \frac{4}{9}$
A. $\frac{49}{9}$ B. $\frac{49}{7}$ C. $\frac{9}{7}$ D. $\frac{7}{2}$
6. A man bought a radio for N1000 and sold it for N1200. What is the profit percentage?
A. 15% B. 20% C. 25% D. 30%
7. Approximate 4597 to the nearest hundred.
A. 4450 B. 4590 C. 4600 D. 4605
8. Approximate 0.347 to 1 significant figure.
A. 0.3 B. 0.35 C. 0.4 D. 0.45
9. How many days are in 4 weeks and 3 days?
A. 28 days B. 29 days C. 30 days D. 31 days
10. Express 60% as a decimal.
A. 0.006 B. 0.06 C. 0.6 D. 6
11. Solve $5(y + 2) = 4(y - 1)$
A. -4 B. -8 C. -12 D. -14
12. A polygon with 10 sides is called
A. pentagon. B. hexagon. C. octagon. D. decagon.
13. Write 999 999 999 995 in words.
A. Nine hundred and ninety nine billion, nine hundred and ninety nine million, nine hundred and ninety nine thousand, nine hundred.
B. Nine hundred and ninety nine billion, nine hundred and ninety nine thousand, nine hundred and ninety nine million, nine hundred and ninety.
C. Nine hundred and ninety nine billion, nine hundred and ninety nine million, nine hundred and ninety nine thousand, nine hundred and ninety five.
D. Nine hundred and ninety nine billion, nine hundred and ninety nine million, nine hundred and ninety nine thousand, nine hundred and five.
14. When x is double and 15 is added, the result is 35. Find the number.

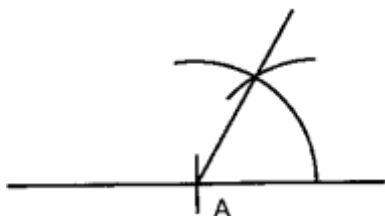
- A. 8 B. 10 C. 15 D.16
15. Each interior angle of a regular polygon is $2y + 36$. If each exterior angle of the polygon is $2y$, find the value of y .
A. 34° B. 36° C. 72° D. 87°
16. The pie chart shows the proportion of the cost of producing a television set. The total cost of production is N 18,000.00. Use the pie chart to answer Question 16 and 17. What fraction of total cost is spent on labour?
A. $1/6$ B. $1/4$ C. $7/12$ D. $5/7$
17. Find the difference between the cost of labour and materials.
A. N3,000.00 B. N4,500.00 C. N6,000.00 D. N10,500.00
18. Factorize: $12p^2q - 9q^2$
A. $3(4p^2 - 3q)$ B. $pq(4p^2 - 3q)$ C. $pq(12p - 9q)$ D. $3q(4p^2 - 3q)$
19. Which of the following figures does not have a line of symmetry?
A. Rhombus B. Rectangle C. Parallelogram D. Kite
20. Simplify $1\frac{1}{2} + 2\frac{1}{2} \times \frac{3}{4} - \frac{1}{2}$
A. $3\frac{3}{4}$ B. $3\frac{1}{4}$ C. $2\frac{3}{4}$ D. $1\frac{3}{4}$
21. Evaluate 0.6721×0.0261 and express your answer in standard form.
A. 1754×10^4 B. 1754×10^{-3} C. 1.754×10^{-3} D. 1.754×10^{-2}
22. The bearing of a town Q from a town P is 045 . Find the bearing of P from Q.
A. 090° B. 135° C. 180° D. 225°
23. Express 4.34×10^{-3} in decimal.
A. 43.400 B. 4.3400 C. 0.04340 D. 0.00434
24. If the average of 5, 8, b , 9 and 4 is 7. Find the value of b .
A. 9 B. 8 C. 7 D. 5
25. What is the value of L in the diagram below?

A. 39° B. 141° C. 180° D. 321°
26. Find the value of y in the diagram below?

27. If x is an acute angle and $\tan x = 5/12$, evaluate $\sin x$
A. $\frac{5}{13}$ B. $\frac{5}{12}$ C. $\frac{12}{13}$ D. $1\frac{1}{2}$
28. Express the true bearing 1960 as a compass bearing.
A. $S16^\circ W$ B. $S16^\circ E$ C. $S32^\circ W$ D. $S32^\circ E$

29. Find the L.C.M of 8 and 9.
A. 17 B. 36 C. 48 D. 72
30. Round off 0.0625 to 3 decimal places.
A. 0.063 B. 0.064 C. 0.065 D. 0.165
31. Simplify $\frac{(-2) \times (+2)}{-6}$
A. 12 B. 4 C. -4 D. -12
32. Find the size of the lettered angle in the figure below.
A. 180° B. 100° C. 96° D. 80°
33. Solve $2(x+15) = 18$
A. 12 B. 6 C. -6 D. -12
34. What is the coefficient of x and y = 6x -1?
A. -6 B. -1 C. 1 D. 6
35. Which of the following are Pythagorean triples?
I. (3,4,5) II. (5,12,13) III. (8,13,17)
A. I only B. II only C. I and II only D. II and III only
36. The volume of a cone of height h and base radius r is given by:
A $\frac{1}{3} \pi r h$ B. $\frac{1}{3} \pi r^2 h$ C. $\pi r h$ D. $\pi r^2 h$
37. A cone is 8cm high and has base diameter of 12cm. Its slant height is....
A. 6cm B. 8cm C. 10cm D. 12cm
38. A student is picked at random from a class containing 17 boys and 13 girls. What is the probability that the student is a girl?
A. $\frac{1}{30}$ B. $\frac{13}{30}$ C. $\frac{17}{30}$ D. $\frac{13}{17}$
39. Which of the following is non-rational number?
A. $\sqrt{3}$ B. $\sqrt{4}$ C. $\sqrt{9}$ D. $\sqrt{16}$
40. Calculate the area of triangle with base 15cm and height 18cm.
A. 30cm B. 60cm C. 120cm D. 160cm
41. Find the sum of 81, 13, and 137.
A. 201 B. 230 C. 231 D. 241
42. Calculate the following in base two $101_2 - 10_2$
A. 100 B. 101 C. 11 D. 10
43. A number is multiplied by itself the result is $5\frac{4}{9}$ Find the number.
A. $\frac{7}{3}$ B. $\frac{7}{5}$ C. $\frac{4}{5}$ D. $\frac{3}{4}$
44. Find the reciprocal of $\frac{7}{2}$
A. 1 B. $\frac{2}{7}$ C. $-\frac{2}{7}$ D. $-\frac{7}{2}$

45. Fill the empty box in the following equation

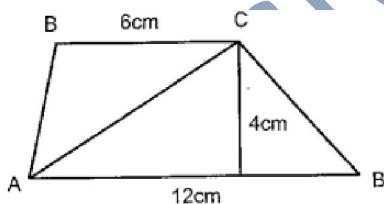
$$\begin{array}{c} \boxed{x^2 - 3x - 18} \\ | \\ \boxed{(x + 3)} \quad \boxed{?} \end{array}$$

46. A ladder 6m leans against a vertical wall at an angle 53° to the horizontal. How high up the wall does the ladder reach?
 A. 3.611m B. 4.521m C. 4.792m D. 7.962m
47. Use four-figure table to find $\sin 27.6^\circ$.
 A. 0.4631 B. 0.4632 C. 0.4633 D. 0.5223
48. Find the range of 2,4,3,5,2,4,2
 A. 1 B. 2 C. 3 D. 4
49. Calculate the area of the parallelogram below.
 A. 10cm^2 B. 20cm^2 C. 40cm^2 D. 60cm^2
50. The construction below represent angle...



SECTION B (THEORY)

1. (a) Simplify the following: $5\frac{3}{4} - 2\frac{7}{8} + 1\frac{1}{2}$
 (b) Calculate the area of the trapezium using $\frac{1}{2}(a + b)h$ has the formula.



2. Solve graphically this pair of simultaneous equation.
 $x + y =$
 $3x - y = 1$
 Using the value of x from -2 to +3 and scale of 1cm = on both axis.
3. Use number lines to draw graphs of the solutions of the following:
 (a) $x + 5/2 > 0$
 (b) $9 > 1 - 2x$
4. A bag contain 20 red, 15 yellow and 25 blue balls. Uncle K takes one ball from the bag. Find the probability that the ball is:
 (a) Red (b) Yellow (c) Blue (d) Red or yellow
5. (a) Find the LCM of $18e^2x$, e^2t and y^3 .
 (b) In a class of 45 students, there-are 12 girls. What percentage of the girls are in the class?

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