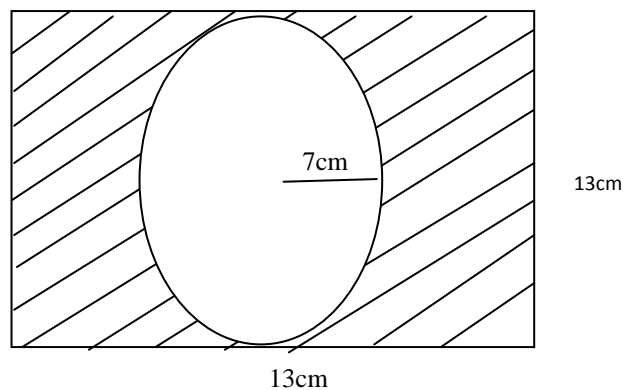


SUBJECT: MATHEMATICS

This section will last for 1hr 10 minutes

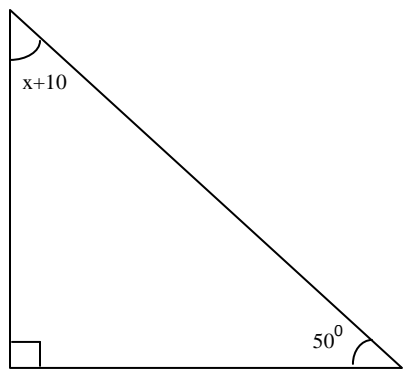
1. How many times can 125 be subtracted from 39842?
(A) 215 (B) 302 (C) 313 (D) 318
2. The larger angle between the hands of a clock at 10:30a.m. is
(A) 105° (B) 195° (C) 210° (D) 225°
3. Reduce $\frac{48}{72}$ to its lowest form
(A) $\frac{6}{9}$ (B) $\frac{4}{6}$ (C) $\frac{2}{3}$ (D) $\frac{4}{9}$
4. In a basket of 100 oranges, 26 are bad what percentage is good?
(A) 26% (B) 40% (C) 64% (D) 74%
5. Find the area of the shaded portion in the figure below. Use the value ($\pi = \frac{22}{7}$)



- (A) 15cm^2 (B) 28cm^2 (C) 154cm^2 (D) 466cm^2
6. The difference between temperatures of 19°C above zero and 12°C below zero is
(A) 5°C (B) 70°C (C) 22°C (D) 31°C
 7. Every year, a school is in session for a total of 39 weeks. If the First Term vacation is 3 weeks and the Second Term vacation is 3 weeks, how long is the Third Term vacation?
(A) 10 weeks (B) 7 weeks (C) 4 weeks (D) 3 weeks

8. $\frac{1}{3}$ of the population of a school is 150. What is 20% of the total population?
(A) 120 (B) 90 (C) 60 (D) 40
9. A dozen exercise books is sold for N450 whereas a single exercise book is sold for N40. How much do I save by buying 18 exercise book at the dozen rate?
(A) ~~N~~675 (B) ~~N~~720 (C) ~~N~~45 (D) ~~N~~55
10. Wilson runs at 10 metres per second and Harmony runs at 9 metres per second. The two of them take part in a 100 metres race. When the winner crosses the finishing line, how far behind is the other?
(A) 1 metre (B) 5 metres (C) 9 metres (D) 10metres
11. If $x = 3$, $y = 2$ and $z = -1$, what is the value of $(x + y + z)^3$?
(A) 12 (B) 16 (C) 64 (D) 124
12. Simplify $(6+3)^2 + (5+4)^2$
(A) 18 (B) 81 (C) 90 (D) 162
13. A football match between Kano Pillars Football Club and Enugu Rangers Football Club started at 9.25am and lasted 145 minutes. At what time did the match end?
(A) 11:05am (B) 11:20am (C) 11:45am (D) 11:50am
14. If the length of a diagonal of a square is 6cm, what is the area of the square?
(A) 12 (B) 18 (C) 24 (D) 36
15. Divide 0.00032 by 0.008
(A) 0.004 (B) 0.04 (C) 0.4 (D) 4
16. Find the sum of the next two terms in the sequence 1, 3, 6, 10, 15
(A) 46 (B) 49 (C) 50 (D) 57
17. Increase 475 by 20%
(A) 95 (B) 380 (C) 570 (D) 750
18. The cost price of an article is N6000 without the value added tax (VAT). How much would a customer pay for the article if a VAT of 5% is charged on the article?
(A) ~~N~~300 (B) ~~N~~600 (C) ~~N~~6,300 (D) ~~N~~30,000

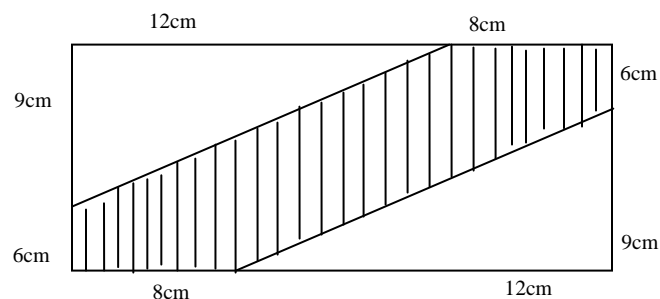
19. The sum of two consecutive counting numbers is 29, what is the value of the smaller number?
 (A) 13 (B) 14 (C) 15 (D) 16
20. The population of a student in a particular school in Ibadan is 1322. Express this number to 2 significant figures
 (A) 1320 (B) 1302 (C) 1300 (D) 1030
21. $\frac{3}{5}$ is subtracted from $\frac{2}{3}$ to obtain a result. How many times is $\frac{1}{45}$ contained in the result?
 (A) $\frac{1}{5}$ (B) 3 (C) 25 (D) 65
22. How many pieces of 500 notes make ₦101000.00?
 (A) 210 (B) 200 (C) 202 (D) 201
23. Find the value of x in the diagram below?



- (A) 15° (B) 20° (C) 30° (D) 60°
24. The result of increasing a number by 30% is 1040, what is the number?
 (A) 700 (B) 800 (C) 210 (D) 310
25. How many litres of water does a 6m by 5m by 2m tank hold?
 (A) 60m^3 litres (B) 60 litres (C) 600 litres (D) 60,000 litres
26. If $x = 4$, $y = -5$ and $z = 225$, find the value of $x^2 + y + \sqrt{z}$
 (A) 12 (B) 13 (C) 26 (D) 52
27. Find the smallest number which is exactly divisible by 6, 9 and 12
 (A) 36 (B) 72 (C) 108 (D) 144

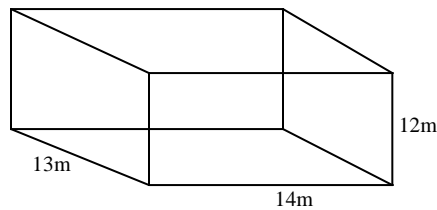
28. Which of these angles is an obtuse angle?
 (A) 55° (B) 80° (C) 108° (D) 320°
29. The sides of two similar squares are 4cm and 5cm. Find the ratio of their areas.
 (A) 1:3 (B) 25:16 (C) 8:10 (D) 16:25
30. A man spent $\frac{3}{4}$ of his income on food and $\frac{1}{2}$ of the remainder on transport. If he then had ₦48 left, how much was his income?
 (A) ₦960 (B) 3840 (C) ₦384 (D) ₦640

31. What is the area of the shaded part of the rectangle?



- (A) 300cm^2 (B) 192cm^2 (C) 150cm^2 (D) 292cm^2
32. What is the value of $\frac{a+b}{c-d}$, if $a=18$, $b=15$, $c=6$ and $d=3$?
 (A) $\frac{4}{11}$ (B) 11 (C) $\frac{11}{12}$ (D) $\frac{23}{9}$
33. $\frac{1}{3}$ of 234 is the same as $\frac{1}{5}$ of y . What is y ?
 (A) 78 (B) 378 (C) 399 (D) 390
34. The average attendance of class at school for 5 days was 46. The attendances on 4 of those days were 46, 47, 43, 45. What was the attendance on the fifth day?
 (A) 47 (B) 49 (C) 50 (D) 46
35. What is the angle between the hands of a clock at half past two?
 (A) 160° (B) 105° (C) 110° (D) 120°
36. An examination scheduled for 2hrs .15mins starts at 9.50am. When will the examination be over?
 (A) 11.05am (B) 1.05am (C) 11.55pm (D) 12.05pm

37. The sum of three numbers is 6000. The first is 1974 and the second is 336 more than the first. Find the third number?
 (A) 5020 (B) 100 (C) 3452 (D) 1716
38. If $\frac{1}{8}$ of a man's annual income is ₦975.00, what is half of his income?
 (A) ₦3900.00 (B) ₦3950.00 (C) ₦3800.00 (D) ₦3850.00
39. In a promotion examination, a student got 648 marks in 12 subjects, each of which is 100 marks. What is his average percentage in the 12 subjects?
 (A) 72% (B) $56\frac{1}{2}\%$ (C) 65% (D) 54%
40. What is the sum of all multiples of 5 between 101 and 121?
 (A) 650 (B) 605 (C) 450 (D) 505
41. Find the sum of DCLIV + MCMLXVI
 (A) MMCDXX (B) MDCXX (C) MMDCXX (D) MCMDIV
42. What is the volume of air in cubic metres required to fill the box in this figure?



- (A) 2184m^3 (B) 2035m^3 (C) 317m^3 (D) 492m^3
43. What does ₦150 become if it is increased by $33\frac{1}{3}$ percent?
 (A) ₦205 (B) ₦3020 (C) ₦200 (D) ₦250
44. The International School bus travelled at 30km per hour. It took 45 minutes for the journey, how long was the journey?
 (A) $22\frac{1}{2}$ km (B) 36km (C) 20km (D) $20\frac{1}{2}$ km
45. Joke worked from 8am to 12.45pm. and from 1.55pm to 4.30pm. For how many hours did she work?
 (A) 6hrs 30mins (B) 8hrs (C) 7hrs 20mins (D) 10hrs 5mins
46. The circumference of a circle is 8.8cm, what is its radius?
 (A) 1.4cm (B) 14cm (C) 24cm (D) 2.7cm
47. If a pocket radio which cost ₦21.00 was sold at a gain of 5 percent, what was the selling price?

(A) ~~N~~20.50 (B) ~~N~~22.05 (C) ~~N~~30.10 (D) ~~N~~40.00

48. The sum of two numbers is 156. Their difference is 18. Find the smaller number.

(A) 84 (B) 69 (C) 120 (D) 57

49. What is the value of 16.0681 correct to 2 decimal places?

(A) 16.07 (B) 20 (C) 16.1 (D) 10.30

50. What number is missing in the addition sum below:

$$\begin{array}{r} 4072 \\ 49 \\ * * * * \\ \hline 5317 \end{array}$$

(A) 7438 (B) 4121 (C) 1206 (D) 1196