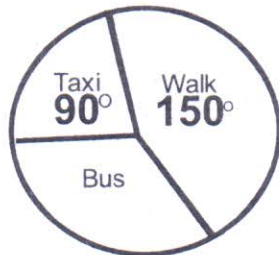


20. Find the radius of a Circle whose is 154cm^2 ; $\pi = \frac{22}{7}$
 (A) 49cm (B) 7cm (C) 22cm (D) 154cm E. 9cm
21. Find the circumference of circle whose radius is $3\frac{1}{2}\text{cm}$; $\pi = \frac{22}{7}$
 (A) 22cm (B) $20\frac{1}{2}\text{cm}$ (C) 24cm (D) 18cm E. 32cm
22. Amaka's results in ten tests are as follows

TEST	A	B	C	D	E	F	G	H	I	J
MARK	8	5	8	7	8	6	9	5	10	4

Use the information above to answer questions 22-25

22. Find the modal mark A. 10 B. 9 C. 5 D. 8 E. 7
23. What is the median?
 (A) 10.00 (B) 7.5 (C) 8.5 (D) 9 E. 7.6
24. Find the mean mark
 (A) 5 (B) 8 (C) 7 (D) 10 E. 9
25. What is the rang of the mark
 (A) 6 (B) 10 (C) 8 (D) 4 E. 9
26. Find the value of $a^2 - b(c-a)$; if $a = 4$ $b = 3$, $C = 5$
 What is the rang of the mark
 (A) 13 (B) 24 (C) 40 (D) 12 E. 9
27. Solve for x ; $8x - 3 = 6x + 7$ (A) $x = 5$ (B) $x = 3$ (C) $x = 6$ (D) $x = 4$ (E) $x = 9$
28. At what rate percent will N240.00 yield an interest of N60.00 in 8yrs 4months?
 (A) 30% (B) 45% (C) 4% (D) 20% (E) 3%
29. A man travelled 360km at an average speed of 80km/hr. How long did the journey take him?
 A. 5hrs (B) 5hrs 30mins (C) 3hrs 45mins (D) 4hrs (E) 4hrs 30mins
30. Find y if $y^{\frac{1}{4}} = 3^{\frac{1}{2}}$
 (A) $y = 10$ (B) $y = 12$ (C) $y = 20$ (D) $y = 13$ (E) $y = 14$
31. Angle more than 90° but less than 180° is called;
 (A) Acute angle (B) Obtuse angle (C) Reflex angle (D) Straight line (E) Right angle



The above pie chart shows three means of transport used by 36 pupils going to school daily: Use the information to answer question 32 and 33

32. How many pupils travel by taxi? (A) 12 pupils (B) 10 pupils (C) 9 pupils (D) 5 pupils (E) 8 pupils
33. How many pupils travel by bus?
 (A) 12 pupils (B) 9 pupils (C) 14 pupils (D) 20 Pupils (E) 15 pupils
34. $x^2 - y^2 = m^2$; Find m if $x = 5$ and $y = 3$
 (A) $m = 16$ (B) $m = 4$ (C) $m = 8$ (D) $m = 6$ (E) $m = 14$
35. If $x = 3$ and $y = 2$; find $\frac{x^2 - y^2}{x - y}$ A. 1 (B) 4 (C) 5 (D) 8 (E) 9
36. Find the volume of a cube of side 0.6cm
 (A) 0.36 (B) 2.16 (C) 21.6 (D) 0.216 (E) 0.18
37. Simplify $a - 2a - 4 + 3a + 5$
 (A) $2a + 1$ (B) $2a - 1$ (C) $a + 1$ (D) $a - 1$ (E) $2a$
38. If 20% is lost by selling an article for N1200.00, find cost o the article
 (A) N2000.00 (B) N1200.00 (C) N1800.00 (D) N1400.00 (E) N1250.00
39. Find the perimeter of a triangle with sides of 8cm, 9.5cm and 12.6cm
 (A) 30.01cm (B) 30.05cm (C) 30.1cm (D) 31.1cm (E) 32.1cm
40. Find the area of a triangle with height of 6.8cm and length of base 5.2cm
 A. 18.68cm^2 (B) 17.58cm^2 (C) 17.35cm^2 (D) 17.68cm^2 (E) 20.00cm^2
41. Multiply: 3hrs 12mins 30sec by 8
 (A) 25hrs 30mins 5sec
 (B) 25hrs 40mins 10 sec
 (C) 25hrs 40mins
 (D) 25hrs 40mins 20 sec
 (E) 25hrs 40mins 30 sec