

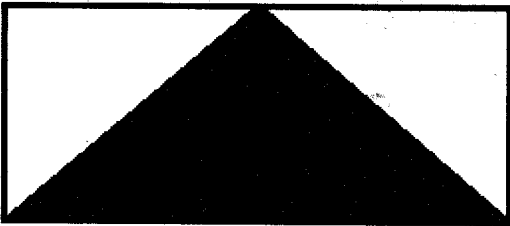
ACHIEVERS FOCUS EXAMINATION SERIES



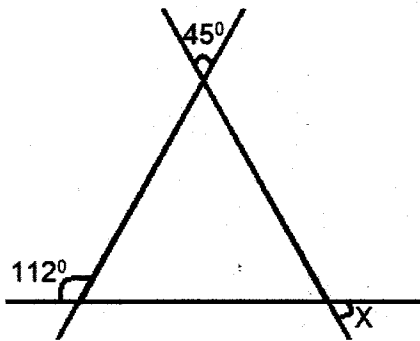
STANDARD 7 – 2021 MATHEMATICS

AF2005

Time: 2 hours

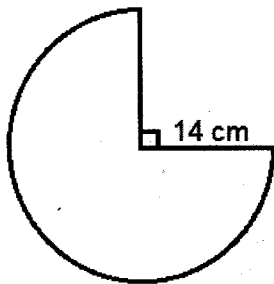
- What is seven million seven hundred and seventy-seven thousand and seventy-seven in figures?
A. 7777777
B. 777777
C. 7777077
D. 0.7077077
- How many hundreds are there in the total value of digit 6 in the number 986754213?
A. 600000
B. 60000
C. 6000
D. 600
- What is the area of a rectangle whose perimeter is 64cm and one of the side is 12cm?
A. 20cm^2
B. 240cm^2
C. 624cm^2
D. 768cm^2
- Round off 989743 to the nearest thousands.
A. 990000
B. 989000
C. 1000000
D. 999000
- What is the highest common factor of 36, 54 and 72?
A. 216
B. 144
C. 108
D. 18
- A bus left members at 2225hrs and arrived at Voi at 1.05am. How long did the journey take?
A. 21hrs 20mins
B. 2hrs 40mins
C. 22hrs 20mins
D. 2hrs 35mins
- Simplify
 $81 \times 9.1 \times 9.8$
 $2.7 \times 1.3 \times 0.7$
A. 294
B. 2940
C. 29.4
D. 29400
- Mwalimu bought an item and later sold it at 2550/=. Making a loss of 15%. What was his loss?
A. Sh. 382
B. Sh. 450
C. Sh. 300
D. Sh. 575
- A river 5km represented on a map using a scale of 1:500000. What is the length of the River on a map?
A. 0.5cm
B. 0.5km
C. 1km
D. 1cm
- Nelima covered a distance of 100m in 10 seconds. What was her speed in km/h?
A. 10km/h
B. 36km/h
C. 30km/h
D. 18km/h
- Convert 600ml into deciliters
A. 60dl
B. 6dl
C. 0.6dl
D. 6000dl
- Convert 0.375 into percentage.
A. 3.75%
B. 0.375%
C. 0.0375%
D. 37.5%
- Find the area of the shaded part.

A. 242cm^2
B. 120cm^2
C. 120m^2
D. 240m^2

14. What is the measure of angle x ?



- A. 157°
- B. 68°
- C. 67°
- D. 113°

15. Find the perimeter of the shape drawn below ($\pi = \frac{22}{7}$)

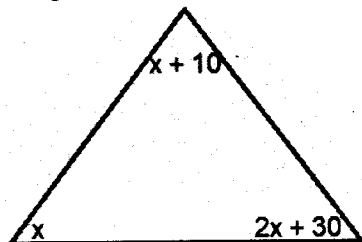


- A. 94cm
- B. 13cm
- C. 66cm
- D. 80cm

16. Express 0.125 as a fraction in its simplest form.

- A. $\frac{1}{80}$
- B. $\frac{1}{4}$
- C. $\frac{1}{8}$
- D. $\frac{1}{800}$

17. What is the difference between the largest and smallest angle?



- A. 50°
- B. 80°
- C. 40°
- D. 10°

18. Express $4(2b - a) - 56 + 6a$ in simplest form.

- A. $3b - 10a$
- B. $3b + 2a$
- C. $13b + 2a$
- D. $3b - 2a$

19. Work out $\frac{8^2+8}{4} - 8$

- A. 16
- B. 10
- C. 56
- D. 2

20. What is the square-root of 0.0576?

- A. 0.24
- B. 0.26
- C. 2.6
- D. 2.4

21. Find the sum of all prime numbers between 80 and 90.

- A. 164
- B. 172
- C. 213
- D. 170

22. Arrange the fractions $\frac{2}{3}, \frac{7}{8}, \frac{4}{5}, \frac{5}{6}$ in ascending order.

- A. $\frac{2}{3}, \frac{4}{5}, \frac{5}{6}, \frac{7}{8}$
- B. $\frac{7}{8}, \frac{5}{6}, \frac{4}{5}, \frac{2}{3}$
- C. $\frac{5}{6}, \frac{4}{5}, \frac{2}{3}, \frac{7}{8}$
- D. $\frac{7}{8}, \frac{2}{3}, \frac{5}{6}, \frac{2}{3}$

23. Solve the equation for t

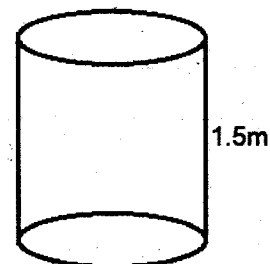
$$6\left(\frac{1}{2}t + 1\right) = 15$$

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

24. How many 50kg bags can be packed from a load of 300 tones?

- A. 60
- B. 6000
- C. 600
- D. 6

25. What is the smallest number that can be added to 89645 to make it divisible by 11?
 A. 6
 B. 5
 C. 3
 D. 7
26. The mean of 6 numbers is 5.5. Five of the numbers are 2, 4, 8, 4 and 10. What is the sixth number?
 A. 33
 B. 4
 C. 5
 D. 28
27. Wanjiru bought the following
 $2\frac{1}{2}$ kg of sugar @ 100.00
 3kg rice @ 90.00
 2kg of meat for 180.00
 $1\frac{1}{2}$ kg of flour at 80 per kg
 If she paid using 5 – two hundred-shilling notes, what balance did she receive?
 A. Sh.180
 B. Sh.820
 C. Sh.280
 D. Sh.720
28. Find the first number in the pattern.
 __, 11, 17, 29, 53
 A. 0
 B. 8
 C. 3
 D. 5
29. How many days are there from 15th March to 15th Aug?
 A. 152
 B. 154
 C. 133
 D. 132
30. Which statement is correct?
 A. $\frac{5}{12}$ is greater than 0.46
 B. $\frac{5}{12}$ is less than 0.46
 C. $\frac{3}{12}$ is equal to 0.46
 D. 0.46 is greater than $\frac{5}{12}$
31. What is the difference of GCD and LCM of 30, 45 and 60?
 A. 165
 B. 175
 C. 195
 D. 155
32. Which measurements will form a right-angle triangle?
 A. 6cm, 8cm, 10cm
 B. 3cm, 5cm, 7cm
 C. 8cm, 16cm, 17cm
 D. 9cm, 24cm, 25cm
33. Complete the statement below.
 A right angle _____ acute angle.
 A. >
 B. =
 C. <
 D. \cong
34. What is 120% of 600?
 A. 120
 B. 720
 C. 480
 D. 660
35. Onyango spent sh.17.50 on stamps. If each stamp was worth 70 cents. How many stamps did he buy?
 A. 25
 B. 35
 C. 15
 D. 45
36. Increase 80 by 20%
 A. 170
 B. 272
 C. 96
 D. 186
37. The volume of a cylinder below is 9.24m^3 . If the height is 1.5m, what is the diameters of the container?



- A. 1.4m
 B. 5.6m
 C. 2.8m
 D. 11.2m

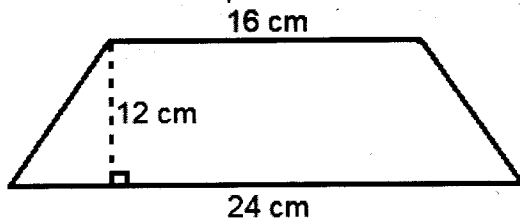
38. Multiply 12hrs 45mins by 4

- A. 51hrs
- B. 49hrs 3mins
- C. 49hrs 50mins
- D. 63hrs

39. Pupils in Rongo School took 2dl of milk each. How many pupils took 85liters of milk?

- A. 425
- B. 525
- C. 625
- D. 725

40. Find the area of trapezium.

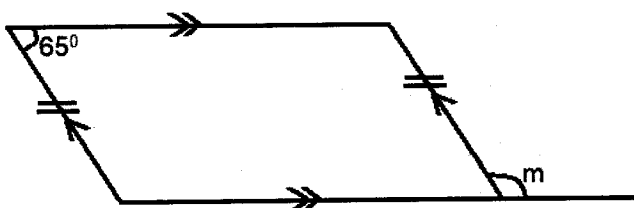


- A. 480cm^2
- B. 240cm^2
- C. 320cm^2
- D. 360cm^2

41. What is 11,300 divided by 25?

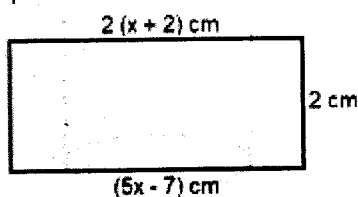
- A. 4052
- B. 40502
- C. 452
- D. 4520

42. What is the size of angle m?



- A. 120°
- B. 165°
- C. 65°
- D. 115°

43. Find the perimeter.

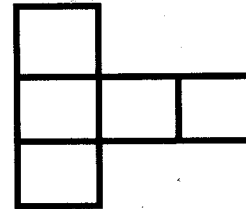


- A. 3cm
- B. 16cm
- C. 10cm
- D. 20cm

44. What is the value of $5(8^2 + 7^2) + 81 \div 9$

- A. 113
- B. 565
- C. 745
- D. 574

45. The figure below represents a net of a solid. The net is for;



- A. Triangular prism
- B. Open cube
- C. Closed cube
- D. Square based prism

46. Given that $a = 5$, $b = 3$, $c = 4$. What is the value of $2(2a + c) - 3(b + a)$

- A. 7
- B. 1
- C. 4
- D. 52

47. Maria received sh.9000 as a commission for sales worth sh.50,000. Calculate her percentage commission.

- A. 8%
- B. 16%
- C. 6%
- D. 18%

48. Macharia deposited sh.92,000 in a bank that paid simple interest at the rate of 8% p.a. How much money was in her account at the end of 2 years?

- A. Sh.106,720
- B. Sh.102,900
- C. Sh.98,320
- D. Sh.14,720

49. What is the product of the faces and vertices of a square based prism?

- A. 48
- B. 30
- C. 40
- D. 36

50. Find the square root of $\sqrt{0.0625}$

- A. 0.25
- B. 0.5
- C. 0.025
- D. 0.05