

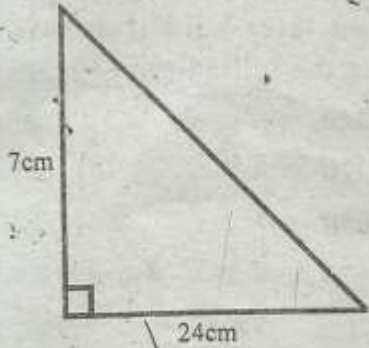
STD 7 END TERM 2 EXAM 2019

MATHEMATICS

Make sure that you have written on the subject

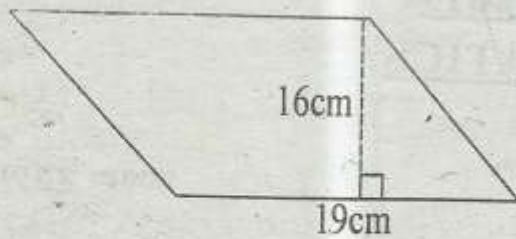
I. YOUR NAME _____ II. NAME OF YOUR SCHOOL _____

1. What is the place value of digit 3 in 573400?
 - A. Thousands
 - B. Tens of thousands
 - C. Millions
 - D. Tens of thousands
2. Write the number which comes immediately before 69800 in words?
 - A. Six thousand nine eight hundred
 - B. Sixty nine thousand eight hundred
 - C. Sixty nine thousand seven hundred and ninety nine
 - D. Sixty eight thousand eight hundred and ninety
3. A square seed bed has an area of 169m^2 . Calculate its length
 - A. 14m
 - B. 13m
 - C. 16m
 - D. 24m
4. Work out;-
 $619 + 218 + 2406$
 - A. 3246
 - B. 3243
 - C. 4619
 - D. 3247
5. Work out;-
 $\quad \times 13 = 104$
 - A. 7
 - B. 6
 - C. 8
 - D. 11
6. A farmer sold 490 mangoes in piles of 7 at Sh 9.70 per pie. How much money did he get from the sale of mangoes?
 - A. Sh 679
 - B. Sh 779
 - C. Sh 867
 - D. Sh 199
7. Write down the next number in. 93, 75, 57, 39, _____
 - A. 31
 - B. 21
 - C. 11
 - D. 19
8. What is value of $9\frac{1}{4} - \frac{1}{2} - 2\frac{5}{8}$?
 - A. $3\frac{1}{4}$
 - B. $6\frac{1}{8}$
 - C. $4\frac{1}{5}$
 - D. $1\frac{1}{5}$
9. How many $\frac{1}{4}$ hour lessons are there in 6 hours?
 - A. 4 lessons
 - B. 5 lessons
 - C. 8 lessons
 - D. 9 lessons
10. Find the perimeter of



 - A. 28cm
 - B. 56cm
 - C. 39cm
 - D. 42cm
11. The distance between two schools is 40km. Trees were planted at intervals of 40 metres apart. How many trees were needed?
 - A. 1000
 - B. 200
 - C. 1001
 - D. 2000

12. Calculate the area of figure shown below.



- A. 304cm^2 B. 130cm^2
 C. 250cm^2 D. 144cm^2

13. The volume of a cylindrical tin is 4928cm^3 . If the tin had a diameter of 28cm , calculate its height. (Take $\pi = \frac{22}{7}$)

- A. 616cm B. 10cm
 C. 15cm D. 8cm

14. Convert $60\frac{1}{2}\text{km}$ into metres.

- A. 6000m B. 6500m
 C. 65000m D. 650m

15. The area of a circle is 616cm^2 . Calculate its circumference.

- A. 88cm B. 160cm
 C. 190cm D. 80cm

16. Wanyonyi bought a 90kg of beans at Sh 1500 and later sold it a 10% profit. Calculate the selling price.

- A. Sh 1440
 B. Sh 1320
 C. Sh 1650
 D. Sh 1620

17. Simplify; $\frac{74.8}{1.1 \times 0.5}$

- A. 136 B. 140
 C. 150 D. 120

18. What is the value of $3 + 21$ correct to 3 decimal places?

- A. 0.142
 B. 0.145
 C. 0.140
 D. 0.217

19. Solve for the value of x in the equation

$$\frac{2}{3}(12x - 15) = 6$$

- A. 3 B. 2
 C. 1 D. 4

20. What is the product of LCM of 6 and 5 and the GCD of 24 and 30 ?

- A. 130 B. 160
 C. 180 D. 100

21. What is the value of $\frac{2}{3}$ of $(1\frac{1}{2} + \frac{3}{4}) + \frac{5}{8}$?

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

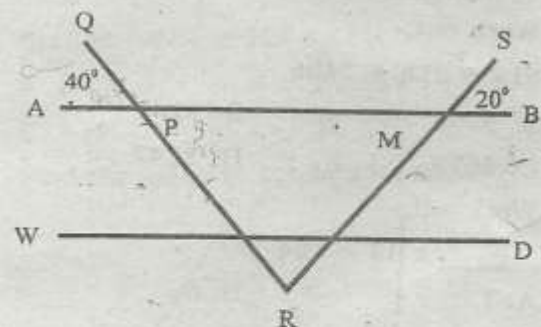
22. The marked price of a gas cooker was Sh 9600 . Peter bought it at Sh 8400 . What percentage discount was he allowed?

- A. 11.3%
 B. 12.5%
 C. 16%
 D. 89%

23. A retailer bought 9 tonnes of sugar and sold it in 2kg packets. How many packets of sugar did he sell?

- A. 4500
 B. 450
 C. 500
 D. 5000

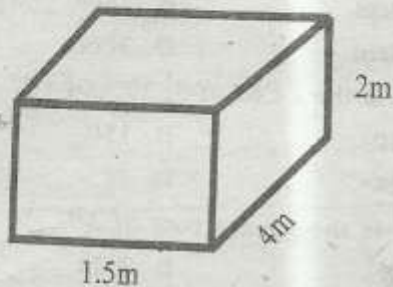
24. In the figure below, AB is parallel to CD . $\angle QPA = 40^\circ$ and $\angle SMB = 20^\circ$.



What is the size of angle QRS ?

- A. 20° B. 120°
 C. 32° D. 30°

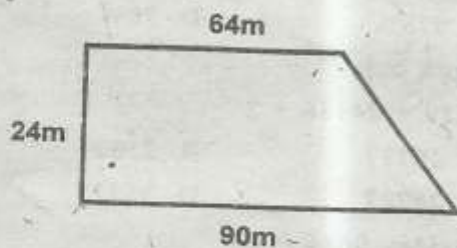
25. The figure below represents a rectangular tank filled with water. What is the capacity of the tank when full?



- A. 12L
 B. 12000L
 C. 1200L
 D. 120000L
26. What is the value of x in $\frac{3x - 4}{2} + \frac{1}{2} = 3$?

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

27. Calculate the area of the figure below.



- A. 2845m²
 B. 1948m²
 C. 1848m²
 D. 1678m²
28. Increase 50 by 50%.
- A. 75
 B. 85
 C. 91
 D. 105
29. Solve $\frac{3}{4}y - 2\frac{1}{2} = \frac{1}{2}y$.
- A. 10
 B. 3
 C. 4
 D. 6

30. The speed of a car is 108km/hr. What is the speed in m/s?

- A. 60m/s
 B. 600m/s
 C. 30m/s
 D. 300m/s

31. Two numbers are in the ratio of 4:5 and their sum is 90. What is the difference between the numbers?

- A. 10
 B. 9
 C. 8
 D. 12

32. Draw a triangle ABC such that AB = 5cm, BC = 4cm and AC = 3cm. Using a ruler and a pair of compasses, bisect angle ABC and let the bisector meet AC at D. Measure AD.

- A. 2.5cm
 B. 1.9cm
 C. 1.5cm
 D. 3cm

33. George bought the following items:-

5kg sugar @ Sh 75

4kg rice @ Sh 70

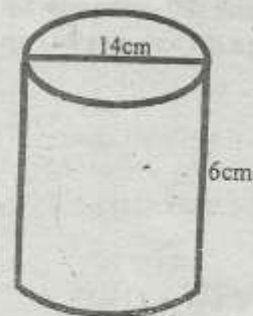
$\frac{1}{2}$ kg tea leaves for Sh 90

2kg tin cooking fat for 250

If he paid using Sh 1000 shillings note, what was his balance?

- A. Sh 10
 B. Sh 15
 C. Sh 5
 D. Sh 3

34. Find the surface area of the closed cylinder below. $\pi = \frac{22}{7}$



- A. 828cm²
 B. 916cm²
 C. 616cm²
 D. 572cm²

35. What is 947.1767 rounded off to the nearest hundredths?

- A. 947.1720 B. 948.18
C. 947.18 D. 947.70

36. 2.65×1.3

- A. 34.45 B. 3.345
C. 3.445 D. 344.5

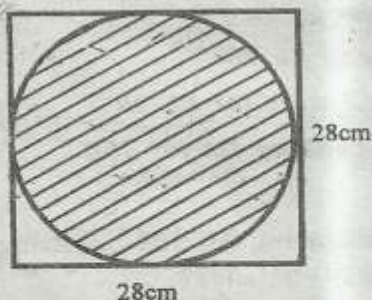
37. Construct a triangle XYZ such that side YZ=6cm, angle YZX = 50° and ZXY = 35° . What is the length of side XY?

- A. 10.4cm B. 6.2cm
C. 7.1cm D. 8.0cm

38. Six men can do a piece of work in 8 hours. How long will it take four men to complete the same work?

- A. 13 hours B. 3 hours
C. 10 hours D. 12 hours

39. What is the area of the unshaded part in the figure below?



- A. 168cm^2 B. 200cm^2
C. 160cm^2 D. 180cm^2

40. A cyclist took 10 seconds to cross 200 metres bridge. What was his speed in km/hr?

- A. 72km/hr
B. 36km/hr
C. 52km/hr
D. 80km/hr

41. Work out; $-\sqrt{6\frac{1}{4}} + (1\frac{1}{2})^2$

- A. $4\frac{1}{4}$ B. $4\frac{3}{4}$

C. $4\frac{1}{3}$

D. $6\frac{1}{3}$

42. Calculate the diameter of a circle whose area is 616cm^2 .

- A. 19cm B. 28cm
C. 14cm D. 30cm

43. What is the LCM of 9, 12 and 15?

- A. 180 B. 150
C. 124 D. 74

44. What is the square root of $3\frac{24}{100}$?

- A. 1.8 B. 2.24
C. 1.9 D. 2.9

45. Calculate the surface area of a cube of side 6cm.

- A. 160cm^2 B. 172cm^2
C. 216cm^2 D. 108cm^2

46. The area of a rhombus is 400cm^2 . If its height is 10m. What is the base?

- A. 40cm B. 20cm
C. 4cm D. 30cm

47. Express 9.78 as a percentage.

- A. 9% B. 97.8%
C. 978% D. 78%

48. Work out;

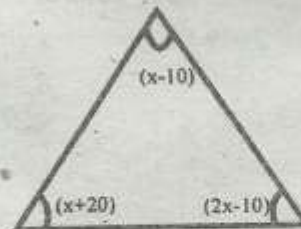
$$1589 + 24136 + 2$$

- A. 26727 B. 25627
C. 25727 D. 25717

49. Divide; $-9684 \div 12$

- A. 80.7 B. 807
C. 670 D. 870

50. Find the value of the largest angle.



- A. 56° B. 86°
C. 80° D. 55°

