

STD 7 END TERM 3 EXAM 2019

MATHEMATICS

1. What is **4340304.034** written in words?
 A. Four million three hundred and forty thousand and thirty four thousandths.
 B. Four million three hundred and forty thousand three hundred and four and thirty four thousandths.
 C. Four million three hundred and forty thousand three hundred and four and thirty four hundredths.
 D. Four million three hundred and forty thousands three hundred and four and thirty four.

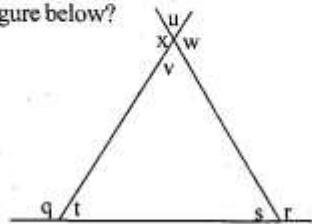
2. What is the total value of digit **7** in **2476321**?
 A. 7000000 B. 7000
 C. 700000 D. 70000

3. What is the value of **x** in $8(\frac{1}{4}x+1) + \frac{1}{2}x=18$?
 A. 8 B. 6
 C. 2 D. 4

4. The area of a square plot of land is $2025m^2$. What is its perimeter?
 A. 90m B. 360m
 C. 180m D. 45m

5. What is the value of $4^2(7-5) + 8 - 5 + 2 \times 3$?
 A. 5 B. 9
 C. 7 D. 3

6. What is the value of the angle marked **q** in the figure below?



- A. $v+t$ B. $v+s$
 C. $w+s$ D. $x+v$

7. What is the next number in the pattern 77, 79, 83, 89, _____?

- A. 95 B. 97
 C. 93 D. 99

8. Which is the smallest number that should be subtracted from 83570 to make it divisible by 11?

- A. 3 B. 8
 C. 4 D. 7

9. What is the value of

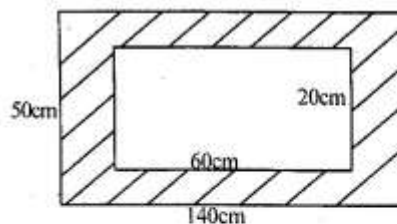
$$\frac{2.5 \times 4.9 \times 36}{7 \times 0.6 \times 5}$$

- A. 0.21 B. 2.1
 C. 21 D. 210

10. Round off **425.5784** to the nearest hundredths.

- A. 425.57 B. 425.6
 C. 425.578 D. 425.58

11. Calculate the area of the shaded part in the figure below.



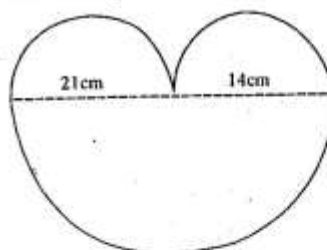
- A. $7000cm^2$ B. $8200m^2$
 C. $1200m^2$ D. $5800m^2$

12. The number of boys in a party was 2068. If the number of girls in the party was 32 more than that of girls, how many pupils attended the party altogether?

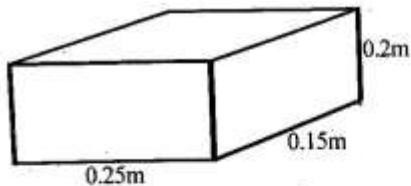
- A. 2200 B. 2100
 C. 4168 D. 4104

13. What is the value of $\frac{1}{2}$ of $\frac{3}{4} \times \frac{1}{3} + 1\frac{1}{4} + \frac{2}{5}$?
- A. $\frac{1}{2}$ B. $\frac{3}{10}$
 C. $\frac{2}{5}$ D. $\frac{3}{8}$
14. A line 5cm long represents a river 2km on a map. What is the scale used as a ratio?
- A. 1:4000 B. 1:4000000
 C. 1:40000 D. 1:400000
15. The hire purchase price of sewing machine is sh. 39000. Dennis paid a deposit of Sh. 13000 and the rest in 10 equal monthly installments. How much was each instalment?
- A. Sh. 1400 B. Sh. 260000
 C. Sh. 2600 D. Sh. 26000
16. The price of a spade is Sh x. The price of a wheelbarrow is one and a half times the price of a spade. A farmer bought two wheelbarrows and 3 spades. How much did he pay?
- A. Sh. 9x B. Sh. 6x
 C. Sh. 5x D. Sh. $7\frac{1}{2}x$
17. Eliud bought the following items from a shop.
 A 2kg packet of maize flour @ sh. 110
 $2\frac{1}{2}$ litres of milk for sh. 200
 $\frac{1}{2}$ kg cooking fat at sh. 130 per kg
 Four match boxes for Sh. 5 per match box
 How much balance did he get from sh. 1000 note?
- A. Sh. 605 B. Sh. 555
 C. Sh. 445 D. Sh. 395
18. By what percentage must 80 be increased to get 86?
- A. 5% B. 10%
 C. $7\frac{1}{2}\%$ D. $12\frac{1}{2}\%$
19. A trader sold a watch for Sh. 2700 and made a profit of $12\frac{1}{2}\%$. What was the buying price of the watch?
- A. Sh. 3037.50 B. Sh. 2500
 C. Sh. 2800 D. Sh. 2400
20. Construct triangle ABC where line AB=3cm, BC=4cm and angle ABC =90°. Draw a circle touching points A, B and C. What is the radius of the circle?
- A. 3.2cm B. 5cm
 C. 2.5cm D. 6.4cm

21. What is the perimeter of the figure below?



- A. 132cm B. 55cm
 C. 88cm D. 110cm
22. Which of the following numbers has the highest value?
- A. 3246 B. 3642
 C. 3624 D. 3426
23. A quadrilateral has the following properties:
 - Opposite sides are equal and parallel.
 - Opposite angles are equal.
 - Diagonals are perpendicular bisectors.
 Which quadrilaterals is described above?
- A. Rhombus B. Square
 C. Parallelogram D. Rectangle
24. What is the volume of the cuboid below in cubic centimetres?



- A. 750cm³ B. 7500cm³
 C. 75000cm³ D. 750000cm³
25. The area of a square is $5\frac{4}{9}$ cm². An insect crawled round the square three times. What distance did it cover?
- A. $\frac{1}{3}$ 9cm B. $16\frac{1}{3}$ cm
 C. 28cm D. 49cm
26. Which of the following measurements cannot be used to draw a right-angled triangle?
- A. 0.5cm, 1.2cm, 1.3cm
 B. 7cm, 24cm, 25cm
 C. 0.6cm, 0.8cm, 0.1cm
 D. 20cm, 21cm, 29cm

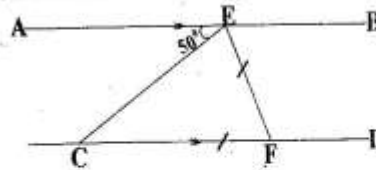
27. The pie chart below shows how Fundi used his profit.



If he spent Sh. 1800 for buying materials, how much did he spend on other expenses?

- A. Sh. 2100 B. Sh. 2200
C. Sh. 2700 D. Sh. 2400
28. A salesman is paid a basic salary of Sh. 15000 and a commission of 4% on all goods sold. In one month he sold goods worth Sh. 150000. What was his total earning that month?
- A. Sh. 24000 B. Sh. 6000
C. Sh. 18000 D. Sh. 21000
29. Convert $\frac{5}{9}$ into a decimal correct to 2 decimal places?
- A. 0.56 B. 0.555
C. 0.45 D. 0.59
30. If $a=2$, $b=3$ and $c = a+b$, what is the value of $\frac{ab+bc}{ac-b}$?
- A. 2 B. 3
C. 4 D. 5
31. The mean mass of 8 pupils is 47kg. The mean mass of the pupils and their teacher is 48kg. What is the mass of the teacher?
- A. 70kg B. 48kg
C. 56kg D. 52kg
32. Wambui deposited Sh. 55000 in a bank that pay simple interest at the rate of 5% p.a. How much money was in her account after 2 years.
- A. Sh. 60500 B. Sh. 5500
C. Sh. 55500 D. Sh. 62500
33. What is the difference between the largest and the smallest numbers that can be formed by the following digits 2, 9, 0, 7, 3 and 4?
- A. 770941 B. 950841
C. 770841 D. 870841
34. Kimani had two 90bags of rice and a 60kg bag of sugar. He packed all the sugar into half kilogram packets and all the rice into 3kg packets. How many packets did he obtain altogether?
- A. 380 B. 180
C. 240 D. 150

35. In the figure below, line AB is parallel to line CD and line CF=EF. Angle AEC=50°.

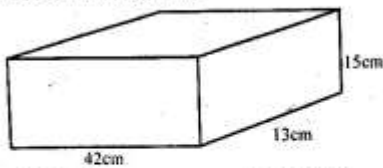


What is the value of angle CFE?

- A. 110° B. 100°
C. 70° D. 80°
36. A farmer has 14 Fresian dairy cows and 12 Jersey cows. Each Freshian produces 15 litres of milk per day and each jersey produces 10 litres per day. He sells the milk at Sh.40 per litre. How much did he earn in the month of June?
- A. Sh. 43200 B. Sh. 396000
C. Sh. 42000 D. Sh. 369000
37. Construct triangle JKF where line JK =6cm, line KF = JF=5.2cm. Measure angle KFJ.
- A. 650° B. 108°
C. 54° D. 72°
38. The figure below represents Amina's piece of land.
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- The diagram shows a trapezoid with a vertical left side labeled 40m. The top horizontal side is labeled 210m and the bottom horizontal side is labeled 290m. Arrows on the top and bottom sides indicate they are parallel.
- What is its area of the land in hectares?
- A. 100ha B. 10ha
C. 1ha D. 0.1ha
39. Arrange the following fractions from the largest to the smallest.
- $\frac{4}{9}, \frac{1}{2}, \frac{5}{6}, \frac{3}{4}$
- A. $\frac{1}{2}, \frac{4}{9}, \frac{3}{4}, \frac{5}{6}$ B. $\frac{1}{2}, \frac{3}{4}, \frac{4}{9}, \frac{5}{6}$
C. $\frac{4}{9}, \frac{1}{2}, \frac{3}{4}, \frac{5}{6}$ D. $\frac{5}{6}, \frac{3}{4}, \frac{1}{2}, \frac{4}{9}$
40. A train left station A for station B at 10.20pm. It took 1 hour 55minutes to reach town B. At what time in 24 hour clock system did it reach town B?
- A. 2215hrs B. 0015hrs
C. 0615hrs D. 1215hrs

DIGITAL EDUCATION

41. What is the total length of the wire used to make the skeleton below?



- A. 70cm B. 140cm
C. 360cm D. 280cm
42. Simplify: $4x+2 < x+3$
A. $x > \frac{1}{3}$ B. $x < 3$
C. $x < \frac{1}{3}$ D. $x > 3$
43. Mito sold a goat for Sh. 3000 making a loss of Sh. 200. What was his percentage loss?
A. $6\frac{1}{4}\%$ B. $6\frac{2}{3}\%$
C. 5% D. $12\frac{1}{2}\%$
44. What is the radius of a circle whose circumference is 132cm?
A. 21cm B. 42cm
C. 14cm D. 28cm
45. The height of water in a tank was $1\frac{1}{2}$ metres. It decreased by 20%. What was the new height of the water after the decrease?
A. $1\frac{1}{4}$ m B. $1\frac{4}{5}$ m
C. $1\frac{1}{5}$ m D. $1\frac{1}{3}$ m

46. The table below shows the sale of pairs of shoes in a shop.

Shoe size	1	2	3	4	5	6	7	8	9	10
Pairs sold	0	1	4	1	3	5	9	2	1	0

How many customers bought shoes less than size 5?

- A. 8
B. 3
C. 5
D. 6

47. An athlete covered a distance of 140m in 28 seconds. What was his speed in km/hr?
A. 36km/hr
B. 5km/hr
C. 18km/hr
D. 10km/hr

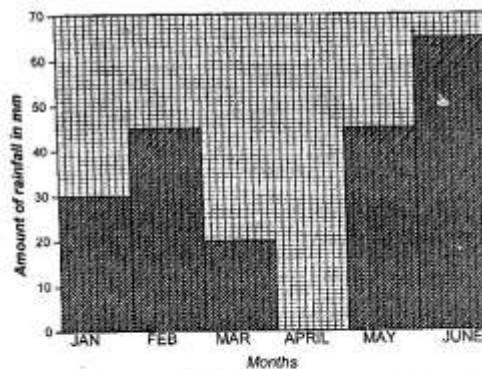
48. Ann prepared juice in $\frac{3}{4}$ litre containers. She then emptied the juice into a 60 litre bucket and found out that she needed 16 more $\frac{3}{4}$ litre containers to fill the bucket. How many $\frac{3}{4}$ litre containers had she prepared?

- A. 64
B. 48
C. 72
D. 36

49. What is the value of $336576 \div 48$?

- A. 7102
B. 7012
C. 712
D. 7120

50. The graph below shows rainfall experienced in a constituency in the first 6 months of 2018.



In which month did the area receive the least amount of rainfall?

- A. March
B. April
C. June
D. January