## CLASS 8 END TERM 3 DECEMBER 2021

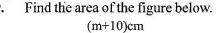
## **MATHEMATICS**

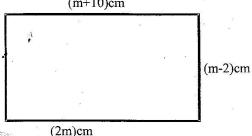
1.	Which	one	of, the	numbers	is	six	million
	twenty three thousand and ninety seven?						

- A. 6023097
- B. 6230097
- C. 6020397
- D. 6002397
- What is the value of  $4(5^2 3^2) 36 \div 4$ ?
  - A.9
- B. 64
- C. 93
- D. 55
- Work out:  $6 + 0.02 \div 4 0.001 \times 100$ 
  - A. 149.95
- B. 14.995
- C. 1.4995
- D. 5.905
- Round off 253.978 to the nearest hundredth
  - A. 253.97
- B. 253.98
- .C. 254.00
- D. 253.980
- 5. What is the sum of the L.C.M of 36, 48 and 54 and the H.C.F of 12, 18, 42?
  - A. 246
- B. 426
- C. 438
- D. 256

- A. 6000
- B. 60000
- C. 600
- D. 60
- Find the square root of 14<sup>1</sup>/<sub>16</sub>
  - A.  $^{4}/_{15}$
- $C.3^{1}/.$
- $D.3^{3}/_{1}$

- A. Wednesday
- B. Tuesday
- C. Friday
- D. Thursday

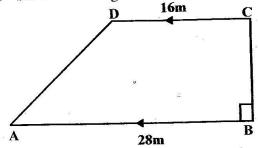




- A. 180cm<sup>2</sup>
- B. 160cm<sup>2</sup>
- C. 200cm<sup>2</sup>
- D. 16cm<sup>2</sup>
- Waiyaki bought the following items from a shop
  - 2<sup>1</sup>/<sub>2</sub>kg packets of sugar for sh 240
  - 11/2kg rice @ sh 80
  - 4 packets of omo for sh 120
  - If he paid using a sh. 500 note, how much should he give the shopkeeper in order to receive a sh. 50 note?
  - A. Sh. 30
- B. Sh. 45
- C. Sh. 35
- D. Sh. 20
- The perimeter of a rectangular board is 56m. The length of one of its side is 7m. What is the area of the field?
  - A. 392m<sup>2</sup> C. 147m<sup>2</sup>.
- B.  $171^{1}/_{2}$ m<sup>2</sup> D. 294m<sup>2</sup>
- 12. Tom sold a phone for sh 7200 making a 20% profit. For how much had he bought the phone?
  - A. Sh 6000
- B. Sh 5760
- C. Sh 8640
- D. Sh 1440
- 13. What is the value of
  - $4.8 \times 0.057$  2
  - $0.19 \times 0.06$
  - A. 240

  - B. 0.24
- 14. The price of a shirt decreased from sh 800 to sh 600. Find the ratio decrease in price?
  - A. 4:3
- B. 3:4
- C. 2:3
- D. 3:2

15. The area of the figure below is 220m<sup>2</sup>



What is the measure of the side marked CB?

- A. 26m
- B. 44m
- C. 10m
- D. 24m

16. The weight of a 90kg bag of coffee decreased to 75kg after drying. What was the percentage decrease in weight?

- A. 20%
- B.  $16^2/_3$
- C. 15%
- D. 25%

17. What is the value of

- $\frac{1}{3} + \frac{1}{2}$  of  $(\frac{2}{3} \frac{1}{5}) \div \frac{4}{5} \times \frac{2}{5}$

- C. 9/20
- D. 27/60

18. What is the next number in the sequence

- 13, 14, 18, 27, 43,
  - B. 98
- A. 68
- D. 104
- C. 83

19. Sigei spent 1/4 of his salary on food, 1/8 on rent and 1/2 of the remainder on school fees. He saved sh 3000. How much was his salary?

- A. Sh 1200
- B. Sh 9600
- C. Sh 9000
- D. Sh 8600

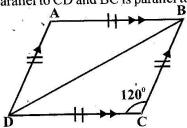
20. The mean mass of 6 girls is 43kg. The weight of 5 of them are 35kg, 40kg, 46kg, 40kg and 45kg. Find the median mass

- A. 53kg
- B. 40kg
- C. 43kg
- D. 42.5kg

21. Three bells were set to ring after 30minutes, 20minutes and 40 minutes respectively. If they were rung together at 8.30 a.m when will they ring together again?

- A. 10.15a.m
- B. 9.30 a.m
- C. 10.30 a.m
- D. 10.45 a.m

22. In the figure below DCB=1200, AB=AD, AB is parallel to CD and BC is parallel to AD



Find angle ABD

- $A.30^{0}$ C. 60°
- $B.110^{0}$ D. 1250
- 23. A parliamentary session began at 11.15a.m. After 1hr 15 mins members went for a 50 minutes lunch break. The meeting then continued for 1 hour 40 mins. At what time did it end?
  - A. 2.40 p.m
- B. 3.45 p.m
- C. 2.50 p.m
- D. 3.00p.m

24. Simplify the expression below.

2(2a-6b)+2a+2b

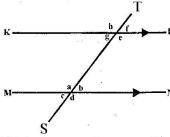
- 2(2a + b)
- A. 6a 10b
- B. 3a 7b
- 4a + 2b
- 2a + b
- C. 4a + 5b a+b
- D. 3a 5b 2a + b
- Kaimenyi paid sh 170000 for a motorbike after receiving a discount of 15% on the marked price. What was its marked price?
  - A. Sh 30000
- B. Sh 200000
- C. Sh 230000
- D. Sh 144500
- Yamina deposited sh 400,000 in a bank which 26. paid simple interest at a certain rate. If she withdrew a total of sh 480,000 after two years, at what rate was the bank paying the interest?
  - A. 15%
- B. 8%
- C. 10%
- D. 12%
- 27. The pie-chart below shows mama Mboga's monthly expenditure.

If she spends sh 4800 on rent. How much more does she spend on fees than savings?

- A. Sh 1800
- B. Sh 1600
- C. Sh 3200
- D. Sh 2400
- 28. Arrange the following fractions from the largest to the smallest

D. 
$$\frac{7}{10}$$
,  $\frac{5}{7}$ ,  $\frac{3}{4}$ ,  $\frac{9}{11}$ 

- 29. Five men can dig a shamba in 4 days. How many more men will be required to dig the shamba in one day?
  - A. 20
- B. 25
- C. 10
- D. 15
- 30. Which quadrilaterals has all properties named below?
  - -all sides are equal
  - -Diagonals intersect at 90°
  - -Daigonals are not equal
  - -opposite sides are equal and parallel
  - A. Square
- B. Rhombus
- C. Parallelogram
- D. Rectangle
- 31. A 6.5km road is represented by 13cm on a map. What is the scale of the map?
  - A. 1:5000
- B. 1:50000
- C. 1:50
- D. 1:5000 000
- 32. Find the difference between the square of 24 and the square root of 289
  - A. 7
- B. 576
- C. 145
- D. 559
- 33. In the figure below lines KL and MN are parallel. Line ST is a transversal.



Which statement is not true?

- A. h=e co-interior angles
- B. c = d supplementary angles
- C. e=d corresponding angles
- D. g=f vertically opposite angles

- Draw a triangle PQR where PQ = 7.5cm, angle PQR =50° and angle QPR=40°. Bisect angle QRP to meet line PQ at M. What is the measure of angle RMP?
  - A. 75°
- $B.85^{0}$
- C. 90°
- D. 950
- 35. The table below shows postage charges for sending a money order

Value of order	Commission			
	sh cts			
Not exceeding 500	42 00			
501- 1000	114 00			
1001 - 3000	173 00			
<sup>2</sup> 3001 - 5000	209 00			
5001 - 10 000	295 00			
10001 - 20000	451 00			
20001 - 30000	619 00			

Muoki bought two money orders for her two children's fee. The money orders were for sh 20400 and sh 8500. How much money did she pay at the post office altogether?

- A. Sh 29814
- B. Sh 746
- C. Sh 29646
- D. Sh 29546
- A motorist drove a distance of 240km for 4 hours. He then drove a further distance at a speed of 60km/hr for 6 hours. Find the average speed of the whole journey?
  - A. 90km/h
- B. 72km/h
- C. 100km/h
- D. 60km/h
- 37. What is the value of k in the equation

$$\frac{2(k+1)}{3} - 4 = 6?$$

- A. 14
- B. 10
- C. 8
- D. 4
- 38. Use the travel graph below to answer the questions given.

À	•				
50	В			8	
80	40	C			
120	60	34	D		
200	120	74	60	Е	
290	240	150	80	60	H

Makori and his wife travelled with their two children from town A to E via C. How much did they pay altogether?

- A. Sh 616
- B. Sh 800
- C. Sh 300
- D. Sh 462

39. Marlin, Owuor and Silas scored goals for their team during a football match. Marlin scored n goals while Silas scored twice as many goals as Marlin. Owuor scored two goals less than silas. What was the total score?

A. 5n + 2

B. 2n-2

C. 3n-2

D. 5n-2

40. The hire purchase price of a dinning table requires a deposit of sh 14000 and 10 equal monthly installments. The hire purchase price is 20% more than the cash price. If the cash price is sh 36000. How much do I pay per month?

A. Sh 2920

B. Sh 3600

C. Sh 4320

D. sh 43200

41. An empty pick-up weighs 3500kg. It weighs 8.150 tonnes when loaded with bags of sugar each weighing 50kg. What was the number of the bags loaded?

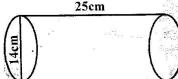
A. 70

B. 93

C. 73

D. 163

The diagram below shows a water pipe.



Find its surface area

A. 900cm<sup>2</sup>

B. 550cm<sup>2</sup>

C. 2200cm<sup>2</sup>

D. 1100cm<sup>2</sup>

43. Which of the following sets of measurement will form a right angled triangle?

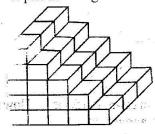
A. 7m

24m 26m B. 0.5m 0.12m

1.3m

C.3cm 4cm D-15em 36cm 7cm 39em

44. How many more cubes are needed to complete the pile in the figure below?



-5

B. 75

35

D. 30

45. A sales girl earns a basic salary of sh 12000 plus a 5% commission on goods sold above Sh 50000. How much did she earn in a month if she made a total sales of sh 140,000?

A. Sh 16500

B. Sh 14500

C. Sh 4500

D. Sh 19000

**46.** Simplify the inequality; 3m-4>2

A. m=2C. m<2

B.  $m > 2/_{3}$ D. 2<m

A cuboid has a square base of side 0.5m and a 47. height of 50cm. How much water can it hold in litres?

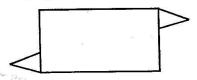
A. 125L

B. 25L

·C. 12.5L

D. 2.5L

48. Inyangela made a solid from the net below



What was the product of the faces, edges and vertices after folding the net?

A. 300

B. 450

C. 270 D. 240

49. Construct a triangle JKL in which JK=8cm, KL=7.5cm and angle LJK=50°. Draw a circle to touch the three vertices of the triangle. What is twice the radius?

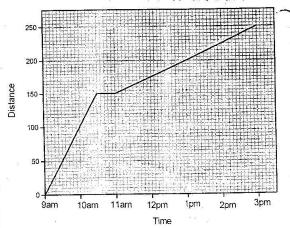
A. 10.0cm

B. 4.6cm

C.5cm

D. 2.5cm

50. The graph below shows Mrefu's journey from town P to Q. He got a puncture at 10.30 a.m. Which took him 30 minutes to repair.



What was his average speed after repairing the puncture?

-A. 25km/h

B. 37.5km/hr

C. 50km/h

D. 62.5km/h