

CLASS 7 MID TERM 3 2021 MATHEMATICS

1. What is the number 8008080.08 written in words?
 - A. Eighty million eight thousand and eight point zero eight.
 - B. Eight million eight thousand and eighty and eight thousandths.
 - C. Eight hundred thousand eight hundred and eighty and eight hundredths.
 - D. Eight million eight thousand and eighty and eight hundredths.

2. What is the value of $\frac{0.64 \times 96}{0.032 \times 16}$?
 - A. 12
 - B. 0.12
 - C. 120
 - D. 1.2

3. What is the total value of digit 7 in the number 2.0374?
 - A. 0.07
 - B. Seven thousandths
 - C. Thousandths
 - D. 0.7

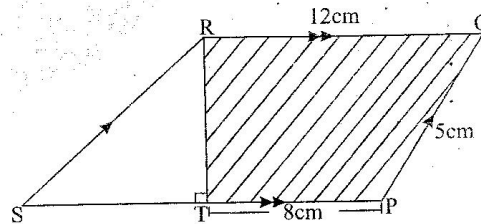
4. What is the value of $\frac{3}{4} + \frac{1}{2}$ of $\frac{2}{3} + \frac{1}{3} - \frac{2}{5}$?
 - A. $1\frac{7}{20}$
 - B. $2\frac{1}{20}$
 - C. $\frac{31}{60}$
 - D. $\frac{3}{20}$

5. What is the quotient of the LCM and GCD of 24 and 36?
 - A. 72
 - B. 12
 - C. 6
 - D. 84

6. In a meeting $\frac{1}{3}$ of attendant were men, $\frac{1}{6}$ were women and the rest were youths. There were 60 youths. How many people were there altogether?
 - A. 60
 - B. 30
 - C. 20
 - D. 120

7. Work out: $5 \overline{)16\text{km } 120\text{m } 80\text{cm}}$
 - A. 3km 24m 16cm
 - B. 3km 224m 16cm
 - C. 3km 22m 00cm
 - D. 3km 22m 15cm

8. The figure below shows a parallelogram PQRS. Part PQRT is shaded.



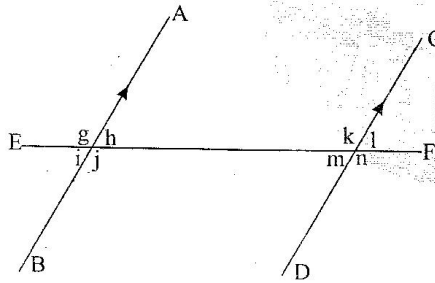
What is the area of the shaded part?

- A. 30cm^2
- B. 60cm^2
- C. 36cm^2
- D. 40cm^2

9. A rectangular flower garden 12m by 8m was fenced using four strands of wire. What was the total length of wire?
- A. 10
B. 5
C. 160
D. 80

10. What is the value of $70 + \sqrt{64} \times 4$?
- A. 71
B. 408
C. 43
D. 86

11. In the figure below line AB is parallel to CD. Line EF is a transversal.



Which of the following statements is **not** true?

- A. $g + h + i + j = 360^\circ$
B. h and m are cointerior angles
C. j and $m = 180^\circ$
D. $j = n$
12. A bakery adds 9.9995g of salt to make a certain type of bread. What is this amount of salt rounded off to the nearest hundredths?
- A. 10.00
B. 9.99
C. 10
D. 9.00

13. A rectangular tank 6m long, 4m wide and 3m high is full of water. How much water in litres is in the tank?
- A. 72L
B. 720L
C. 7200L
D. 72000L

14. Tito had two equal square cards each of an area of $2\frac{1}{4}\text{cm}^2$. He joined the two squares to form a rectangle. What is the length of the rectangle?

- A. $2\frac{1}{2}\text{cm}$
B. $1\frac{1}{2}\text{cm}$
C. 3cm
D. $4\frac{1}{16}\text{cm}$

15. In a meeting 40% of the attendants were women. If there were 120 men, how many people were there?
- A. 200
B. 80
C. 300
D. 180

16. A car travelled from town W to X at a speed of 30m/s. What was the speed in km/h?
- A. 90km/h
B. 108km/h
C. 72km/h
D. 180km/h

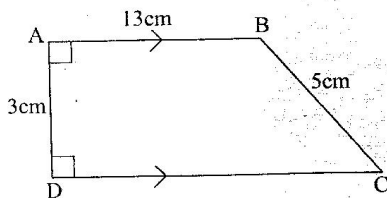
17. What is the next number in the pattern below 37, 41, 43, 47, _____?
- A. 49
B. 51
C. 55
D. 53

18. The table below shows ages of pupils. Both Naomi and Zipoh has the same age

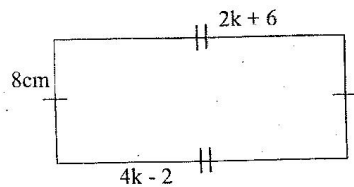
Name	Nick	Kelly	Dosh	Zipoh	Kedi	Naomi
Age	12	14	11		15	7

What is their mean age?

- A. 7
B. 59
C. 11
D. 22
19. The area of trapezium ABCD below is 45cm^2 .
AB = 13cm, AD = 3cm and BC = 5cm, what is the length of DC?



- A. 15cm
B. 17cm
C. 4cm
D. 30cm
20. The following figure shows a rectangle



What is the value of k?

- A. 4
B. 8
C. 2
D. 6

21. After being allowed a discount of 30%, Kagiri paid sh. 2100 for a suit. How much was the price before discount?

- A. sh. 4900
B. sh. 900
C. sh. 3000
D. sh. 700

22. What is $2x + \frac{3}{5}(20x - 15)$ in simplest form?

- A. $14x - 15$
B. $12x - 15$
C. $14x + 9$
D. $14x - 9$

23. Which of the following properties describe a parallelogram?

- (i) All sides are equal
(ii) Interior angles add upto 180°
(iii) Diagonals are not equal
(iv) Some angles are acute
(v) All angles are equal

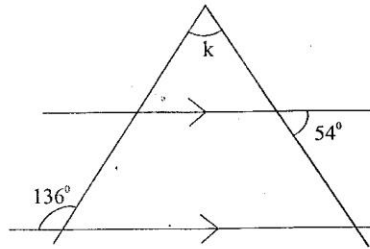
- A. i, ii
B. iii, iv
C. iii, v
D. ii, iv

24. The marked price of a wall unit is sh. 42000.

The hire purchase price involves a deposit of sh. 12000 followed by 12 equal monthly instalments each sh. 3000. How much more will one pay on hire purchase than marked price?

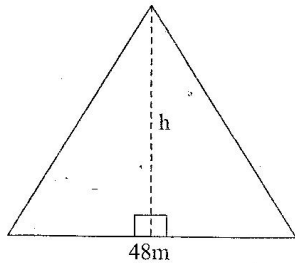
- A. sh. 16000
B. sh. 48000
C. sh. 6000
D. sh. 36000

25. What is the size of angle marked k in the figure below?



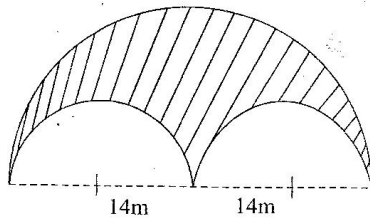
- A. 82°
 B. 98°
 C. 44°
 D. 41°
26. A road 26km is represented on a map by a drawing length of 2cm. What is the scale?
 A. 1:5200000
 B. 1:13
 C. 1:130000
 D. 1:1300000
27. A shopkeeper had two sacks of sugar each 0.07 tonnes. He packed the sugar in 500g packets. How many packets did he pack altogether?
 A. 0.14
 B. 280
 C. 28
 D. 1400
28. Given that $a = 2$, $b = 3$ and $c = 4$, what is the value of $\frac{1}{2}(a + 4b) + 5c$?
 A. 27
 B. $22\frac{1}{2}$
 C. 32
 D. 28
29. A boy had a piece of wire of length 30cm. He folded it to form a right angled triangle. Which of the following sets of measurements is not likely to be the sides of the triangle?
 A. 6cm, 8cm, 10cm
 B. 6cm, 10cm, 24cm
 C. 8cm, 15cm, 17cm
 D. 5cm, 12cm, 13cm
30. A sales agent is paid a basic salary of sh. 24000. He is also paid a commission of 8% on any value of goods sold. In one month he sold 12 radios each sh. 10000. How much did he earn in the month of altogether?
 A. sh. 9600
 B. sh. 24800
 C. sh. 33600
 D. sh. 11920
31. Construct a triangle WXY such that $WX = 8\text{cm}$, $XY = 6\text{cm}$ and angle $WXY = 80^\circ$. Draw a circle touching the three vertices. What is the length of the radius?
 A. 4.7cm
 B. 4.2cm
 C. 2.1cm
 D. 5.7cm
32. Zainabu bought the following items from a supermarket
 1 $\frac{1}{2}$ kg of rice @ sh. 120
 Two - 2kg packets of wheat flour @ sh. 140
 2 $\frac{1}{2}$ kg of green grams for sh. 250
 4 loaves of bread at sh. 50 per loaf
 She paid the bill using a thousand shilling note. How much more should she add to the cashier to get a balance of sh. 100?
 A. sh. 90
 B. sh. 10
 C. sh. 1285
 D. sh. 285

33. The figure below represents a triangular plot of land with an area of 168m^2 . The base is 48m .



What is the height of the triangle?

- A. 3.5m
 B. 60m
 C. 7m
 D. 14m
34. The figure below represent a flower garden



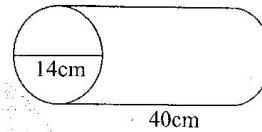
What is the perimeter of the garden?

- A. 44m
 B. 462m
 C. 66m
 D. 88m
35. What is the inequality $3p + 4 > 2p + 7$ in simplest form?
- A. $p > 3$
 B. $p < 3$
 C. $p < 11$
 D. $p > 11$

36. Four men can take 16 days to complete a piece of work. How long can 8 men take to complete the same work?

- A. 2
 B. 8
 C. 32
 D. 4

37. The figure below is a cylindrical log of diameter 14cm and length 40cm .



What is its volume?

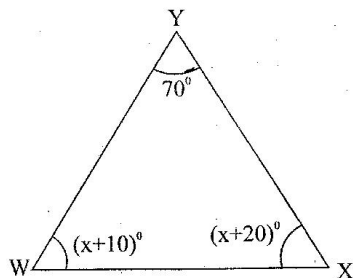
- A. 308cm^3
 B. 1760cm^3
 C. 6160cm^3
 D. 560cm^3
38. In a factory there are 36 female and 48 male workers. What is the number of male and female workers written as ratio in simplest form?
- A. 4:3
 B. 48:36
 C. 3:4
 D. 36:48
39. Njoroge deposited sh. 30000 in a bank that paid a simple interest at a rate of 2% per month. How much was in his account after 1 year?
- A. sh. 30600
 B. sh. 600
 C. sh. 7200
 D. sh. 37200

40. A motorist arrived at a town at 01:30h from home. If the journey took him 6 hours, at what time did he leave home?
- A. 7.30am
B. 1930h
C. 0730h
D. 19.30pm

41. What is the area of curved surface of a cylinder with a diameter of 28cm and a height of 10cm?
- A. 6160cm^2
B. 880cm^3
C. 7040cm^2
D. 880cm^2

42. Akinyi is w years old. She is 3 years younger than her brother. What will be the sum of their ages after 2 years from now?
- A. $2w+4$
B. $2w+1$
C. $2w+7$
D. $2w-7$

43. The figure below is a triangle



What is the size of angle WXY?

- A. 60°
B. 80°
C. 40°
D. 70°

44. Which of the following statements is correct?

A. $\frac{1}{-2} > 0.5$

B. $\frac{3}{5} = 60\%$

C. $\frac{3}{4} < 0.75$

D. $0.6 = \frac{6}{100}$

45. The temperature of water was 24°C . It was heated until it boiled. What was the rise in temperature?

- A. 124°C
B. 100°C
C. 86°C
D. 76°C

46. What is the correct arrangement of $\frac{2}{5}$, 0.2, 60% from the smallest to largest?

A. 60%, $\frac{2}{5}$, 0.2

B. 0.2, 60%, $\frac{2}{5}$

C. 0.2, $\frac{2}{5}$, 60%

D. $\frac{2}{5}$, 0.2, 60%

47. The table below shows distance in kilometres among different towns

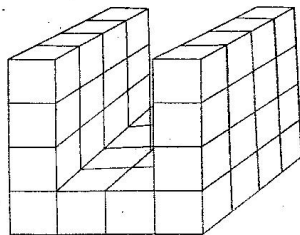
Koki				
50	Peku			
80	90	Rioh		
100	110	100	Memu	
150	120	110	90	Timia

Mercy travelled from Koki to Timia via Rioh. What distance did he cover?

- A. 190km
 B. 80km
 C. 150km
 D. 100km
48. In a garage $\frac{1}{2}$ of the vehicles are cars, $\frac{1}{4}$ are pickups, $\frac{1}{5}$ are matatus and the rest are lorries. What fraction of the vehicles are lorries?

- A. $\frac{19}{20}$
 B. $\frac{1}{20}$
 C. $\frac{3}{11}$
 D. $\frac{8}{11}$

49. How many cubes are used to make the stack below?



- A. 24
 B. 32
 C. 40
 D. 36

50. What is the next shape in the pattern below?

