CLASS 8 MID TERM 3 2021
MATHEMATICS

1. Write seventy one million seven hundred and sixty seven thousand six hundred and seventy six in figure? _____

   A. 71676776 B. 71776676

   C. 71767676 D. 7167676

2. How many times is the total value of digit **3** greater than the total value of digit **5** in the number **0.3457**? _____

   A. 600 B. 60

   C. 0.23993 D. 0.299

3. A family uses **2** litres of milk everyday. How much money will the family spend on milk in the month of **February 2016** if **1** litre of milk cost Sh.30? _____

   A. Sh. 1740 B. Sh.1800

   C. Sh. 1860 D. Sh. 1680

4. What is the value of **1.507 + 3.841 - 0.0564** correct to **2** decimal places? _____

   A. 4.39 B. 5.2916

   C. 5.29 D. 4.29

5. Work out the value of: $x^2(y^2 - z^2)$ given that: **x= y -1, y = 2z** and **z =2** _____

   A. 126 B. 36

   C. 300 D. 108

6. The area of a square drawn is **841m²**. What is the sum of the length of two of its sides?

   A. 29 B. 116

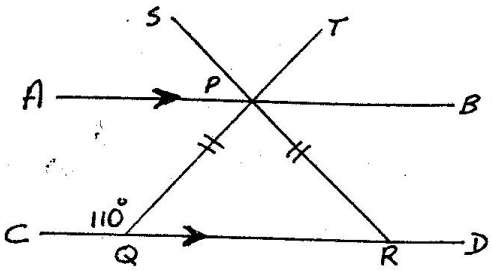
   C. 19 D. 58

7. A motorist covered **450m** in a third of a minute. What is his speed in kilometres per hour? _____

   A. 81 km/h B. 150 km/h

   C. $22\frac{1}{2}$ km/h D. $77\frac{1}{2}$ km/h

8. In the figure below line **AB** is parallel to line **CD**. In triangle **PQR, PQ=PR** and angle **PQC=110°. QPT** and **RPS** are straight lines. What is the size of angle **RPT**? _____



   A. 110° B. 140°

   C. 700 D. 40

9. What is the sum of the square of **17** and the square root of **25**? _____

   A. 914 B. 1024

   C. 294 D. 32

10. Workout: $\frac{5.7 \times 5.1 \times 0.8}{3.8 \times 1.6 \times 0.17}$ _____

    A. 22.5 B. 2. 25

    C. 225 D. 0. 225

11. Simplify the following inequality: _____

    8y + 7 < 5y + 12

    A. 3y < 5 B. 5y < 3

    C. 3y<19 D. 5y > 3

12. Work out the products of the faces and edges of an open cuboid? _____

    A. 48 B. 72

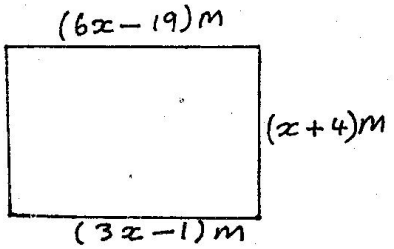
    C. 60 D.40

13. Which of the following numbers is divisible by **11**? _____

    A. 71422 B. 2662

    C. 19116 D. 4984

14. Find the area of the diagram below in m^2?



A. $160m^2$ B. $179m^2$

C. $150m^2$ D. $140m^2$

15. The temperature of a body was **86°C** below the boiling point of water. What was the reading on the thermometer? _____

A. 24°C B. 86°C

C. 14°C D. 114°C

16. In a meeting there were **30** more women than men and three times as many as children. If there were **1360** people all together, what was the number of children in the meeting?

A. 190 B. 570

C. 600 D. 220

17. The distance between town **W** and **X** is 290km. A lorry driver left town W at 10.35 a.m and travelled to town **X** at an average speed of 50km/hr. At what time did he reach town **X**? _____

A. 3.23p.m B. 3.23a.m

C. 4.23a.m D. 4.23p.m

18. What is the next number in the sequence below? **6, 10, 19, 35** _____

A. 71 B. 51

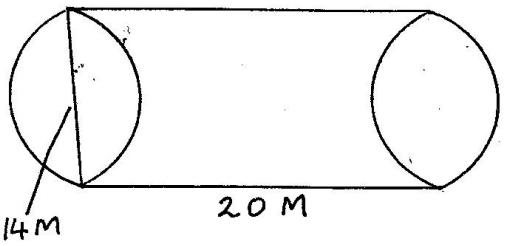
C. 60 D. 84

19. Evaluate: $\frac{3}{2}(x+5) - x = 9$?

A. 2 B. $1\frac{1}{2}$

C. 3 D. $\frac{1}{2}$

20. The figure below is a cylindrical log. Work out its capacity in litres.



A. 3080L

B. 12.32L

C. 3.08L

D. 12320L

21. What is the sum of the prime numbers between **20** and **40**? _____

A. 120 B. 97

C. 159 D. 140

22. Njoroge's average score in **4** tests was **75**. In 3 of the tests, he scored **78, 81** and **68**. What was his score in the **4th** test? _____

A. 82 B. 73

C. 68 D. 71

23. Construct triangle **WXY** such that line **WX= 6cm**, line **XY** is **8cm** and angle **WXY= 60°**. Draw a circle that touches the vertices of the triangle. Measure the diameter of the circle.

A. 4cm B. 8cm

C. 10cm D. 5cm

24. Evaluate $1\frac{1}{3} + 1\frac{5}{6}$ of $\frac{1}{11} + \frac{5}{6} - \frac{5}{6}$ _____

A. $\frac{21}{30}$ B. $\frac{7}{15}$

C. $\frac{3}{10}$ D. $\frac{7}{10}$

25. Njeri slept from **2345hrs** on Monday and woke up after **6hrs** and **45 mins**. At what time and day did she wake up? _____

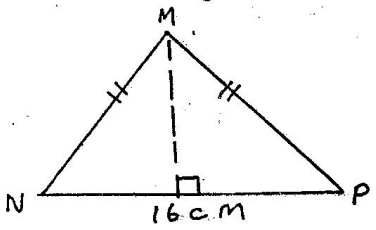
A. 1830hrs Tuesday

B. 0630hrs Tuesday

C. 0650hrs Monday

D. 0650hrs Tuesday

26. The area of the isosceles triangle below is **48cm²**. What is the length of line **MP**?



A. 12cm B. 8cm

C. 10cm D. 6cm

27. A tailor bought $17\frac{1}{4}$ of cloth to make school uniforms. Each uniform took $2\frac{7}{8}$ of cloth. How many uniforms did the tailor make?

A. 6 B. 5

C. 8 D. 9

28. What is the value of $\frac{3^2(5^2 - 4^2) - 3^2}{4^2 - 2^2}$?

A. 36 B.12

C. 6 D. 9

29. Abdi had **100** goats, **80** sheep, **40** cows and **20** camels. He drew a pie chart representing his animals. What was the size of the angle representing camels? _____.

A. 20° B. 40°

C. 60° D. 30°

30. The cash price of an item is Sh. **12000**. The hire purchase is **20%** more than the cash price. Chege bought it on hire purchase by paying a **900** for **11** months. How much did he pay as a deposit? _____

A. Sh. 2100 B. Sh. 4500

C. Sh. 9900 D. Sh. 2400

31. Processed tea is packed in **50g** packets and placed in cartons. One of the cartons contains **180** packets. How many tonnes of tea are packed in **500** cartons? _____

A. 4500 B. 45

C. 4.5 D. 450

32. The distance between two villages is **6.4km**. On the map of the region this distance is represented by a line **1.6cm** long. What is the scale of the map? _____

A. 1 : 4 B.1 : 4000

C. 1 : 400 000 D. 1 : 40 000

33. The fractions $\frac{2}{3}$, $\frac{4}{5}$, $\frac{1}{4}$, and $\frac{5}{6}$ are to be arranged in order of size from the smallest to the largest. Which one of the following is the correct order?

A. $\frac{1}{4}, \frac{2}{3}, \frac{5}{6}, \frac{4}{5}$ B. $\frac{5}{6}, \frac{2}{3}, \frac{4}{5}, \frac{1}{4}$

C. $\frac{5}{6}, \frac{4}{5}, \frac{2}{3}, \frac{1}{4}$ D. $\frac{1}{4}, \frac{2}{3}, \frac{4}{5}, \frac{5}{6}$

34. A closed cylindrical container has a base area of **616**cm² and a height **20**cm. What is the total surface area of the container in cm²? _____

A. 1232 B. 2992

C. 1760 D. 2376

35. Ole Mpesha paid Sh. **1350** for a jacket after he was allowed a discount of Sh. **150**. What was the percentage discount given?

A. 10% B. 15%

C. $11\frac{1}{9}\%$ D. $12\frac{1}{2}\%$

36. Jimmy bought the following items from a supermarket.

2 kg of sugar at sh. 48 per kg

2 kg tin cooking fat for Sh. 165

2 packets of tea leaves at Sh. 155 each

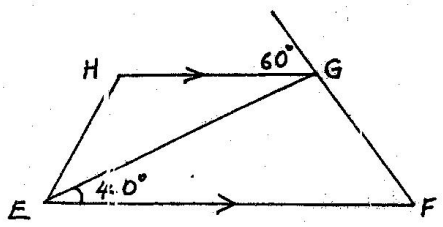
3 loaves of bread for Sh. 63

He paid his bill using a one thousand shillings note. How much balance did he receive? _____

A. Sh. 75 B. Sh. 240

C. Sh. 366 D. Sh. 201

37. In the figure **FGI** is a straight line and **HG** is parallel to **EF**. Angle **FEG = 40°** and angle **HGI= 60°**. What is the size of angle **EGF**?



A. 80° B. 40°

C. 60° D. 100°

38. A triangle has an area of **48cm²**. The length of the base of the triangle is **(5x - 4)** cm and its height is **6cm**. What is the value of **x**?

A. 4 B. 20

C. $2\frac{2}{5}$ D. 3

39. If I subtract **9657** from a certain number I get **6724**. Which is that number? _____

A. 17381 B. 2933

C. 3933 D. 16381

40. The population of giraffes in a certain game reserve was **1500** in one year. In the following year, the giraffe's population increased by **20%**. What was the number of giraffes in the game reserve after the increase? _____

A. 300 B. 1800

C. 1200 D. 1950

41. Construct triangle **PQR** in which **PQ = 4.5cm**, **PR = 6cm** and **QR = 5cm**. Bisect angle **PRQ** and let the bisector meet line **PQ** at **M**. What is the size of angle **MRQ**? _____

A. 50° B. 60°

C. 250° D. 18°

42. Six men can offload a truck in **4** hours. How many more men are needed to offload the truck in **3** hours? _____

A. 8 B. 2

C. 3 D. 6

43. Suleiman sold a trouser at **Sh. 425** making a loss of **15%**. What was the cost price of the trouser? _____

A. Sh. 488.75 B. Sh 450

C. Sh 480 D. Sh 500

44. What is the square root of $5^3/_9$? _____

A. $^7/_9$ B. $1\ ^7/_9$

C. $2\ ^2/_3$ D. $2\ ^1/_3$

45. A milk vendor had **18 litres 4** decilitres of milk in his kiosk. He **sold 10** litres **6** decilitres of the milk. How much milk remained?

A. 8 litres 8 decilitres

B. 7 litres 8 decilitres

C. 7 litres 2decilitres

D. 7 litres 4 decilitres

46. A sales man sold **560** textbooks whereby each one of them was costing **Sh.50**. If he was given $5^1/_2$ commission, how much money was he given as commission? ____

A. Sh. 1540

B. Sh. 3080

C. Sh. 2800

D. Sh. 28800

47. Which one of the following statements is **NOT** true about a Rhombus? _____

A. All sided are equal

B. Opposite sides are parallel

C. It is a special parallelogram

D. Its two diagonals are not equal

48. Otunda walked from his home to the market at a speed of 6km/hr and from market to his home at a speed of 4km/hr. He took a total of $2^1/_7$hrs. What is the distance between his home and market? _____

A. 4km

B. 10km

C. 6km

D. 12km

49. How many quarter litre packets of milk can be packed from **240dl**? _____

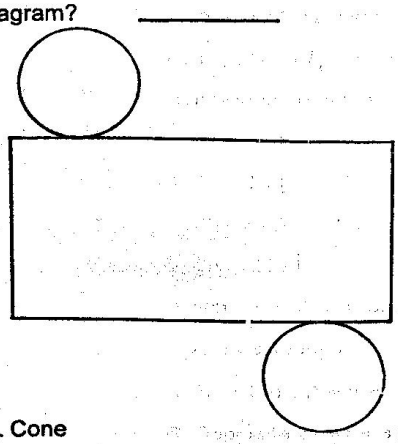
A. 96 packets

B. 960 packets

C. 60 packets

D. 6 packets

50. The diagram below represents the net of a solid. Which one of the following solids can be opened to give the net shown in the diagram? _____



A. Cone

B. Hollow cylinder

C. Open cylinder

D. Closed cylinder