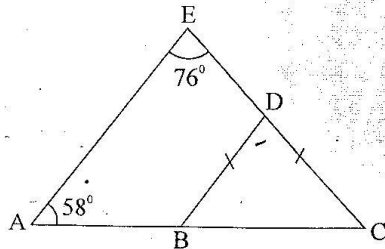


**CLASS 8 MID TERM 3 DECEMBER 2021
MATHEMATICS**

1. Which one of the following is ten thousand one hundred and four less four thousand and eighty four written in figures?
A. 10104 B. 14188
C. 6020 D. 4084
2. How many hundreds are there in the total value of digit 8 in the number 10786572?
A. 8 B. 800
C. 86000 D. 80000
3. What is 3804993 rounded off to the nearest thousand?
A. 3810000 B. 3800000
C. 3805000 D. 3804000

4. What is the value of: $\frac{4(6^2 - 4^2) - 8 \times 6 \div 3}{4 \times 6 \div 3}$?
A. 8 B. 64
C. 16 D. 24

5. In the figure below, line BD and DC are equal. Angle AEC = 76° and EAB = 58°.



- What is the measure of angle BDC?
6. Find the next number in the pattern below 13, 15, 18, 23, 30, _____
A. 47 B. 41
C. 39 D. 43
 7. The area of a square plot of land is $6\frac{19}{25}$ m². What is the perimeter of the land?

- A. $3\frac{4}{5}$ m B. $2\frac{2}{5}$ m
C. $2\frac{3}{5}$ m D. $10\frac{2}{5}$ m

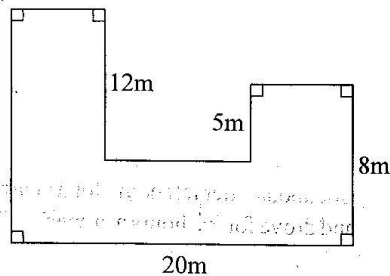
8. Which of the following statements is correct?

- A. $0.25 < \frac{3}{5}$ B. $\frac{2}{5} = 0.5$
C. $\frac{1}{8} > 0.125$ D. $\frac{4}{5} < \frac{3}{5}$

9. Wanjala woke up at 0615 hours on Monday after sleeping for $8\frac{1}{2}$ hours. At what day and time had he slept in am/pm?
A. Sunday 9.45pm
B. Monday 9.45am
C. Sunday 10.45pm
D. Monday 2145hours
10. What is the HCF of 32, 24 and 40?
A. 16 B. 480
C. 120 D. 8
11. Increase sh. 40 by 40%
A. sh. 44 B. sh. 56
C. sh. 96 D. sh. 64
12. In a class, 30% of the pupils are girls. If there are 12 more boys than girls, how many pupils are there in the class?
A. 40 B. 35
C. 30 D. 21

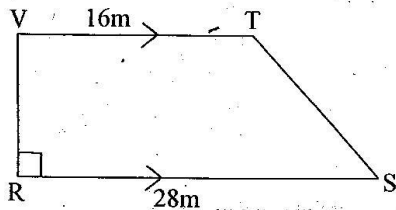
13. Work out: $\frac{2.7 \times 0.25 \times 0.64}{0.16 \times 0.09 \times 0.05}$
A. 60 B. 600
C. 6 D. 0.6

14. Find the perimeter of the figure below.



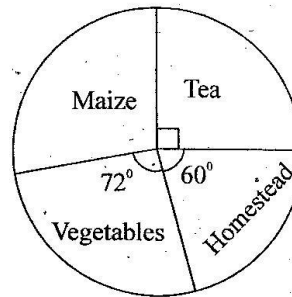
- A. 80m B. 60m
C. 65m D. 45m

15. In the year 2020 February 5th was on a Friday. On which day was February 25th the same year?
 A. Friday. B. Sunday.
 C. Thursday. D. Saturday.
16. An empty lorry weighs 1.25 tonnes. When loaded with 50kg bags of cement it weighs 5.4 tonnes. How many bags were loaded in the lorry?
 A. 80 B. 133
 C. 108 D. 83
17. Kiama paid sh. 170000 for a car 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
18. The ratio of onions to tomatoes in a kiosk is 4:7 respectively. If there are 28 tomatoes in the kiosk, how many more tomatoes than onions are there in the kiosk?
 A. 16 B. 49
 C. 12 D. 21
19. What is the sum of the squareroot of $2\frac{1}{4}$ and the square of $1\frac{1}{4}$?
 A. $6\frac{9}{16}$ B. $2\frac{1}{4}$
 C. $3\frac{1}{16}$ D. $3\frac{13}{16}$
20. The figure RSTV below is a plot of land in form of a trapezium



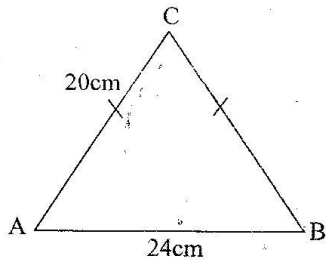
- If the area is 110m^2 , find the measure of line RV?
 A. 13m B. 22m
 C. 12m D. 5m
21. Bodaboda rider left home for a nearby town and drove for $2\frac{1}{2}$ hours at a speed of 80km/h. He took 2hours 40minutes to drive back home. What was his speed for the return journey?
 A. 75km/h B. 72km/h
 C. 85km/h D. 70km/h

22. The pie-chart below shows how Kimwaki sub-divided his farm

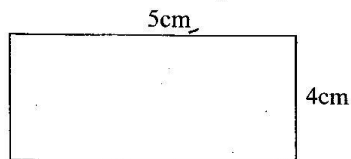


- If his farm has 180 hectares, how many more hectares were used for maize than homestead?
 A. 69 B. 36
 C. 45 D. 39
23. A rectangular water container is 60cm long, 45cm wide and 30cm high. How many litres of water does it contain?
 A. 81000L B. 810L
 C. 81L D. 0.81L
24. Mkulima has t number of cows. The number of sheep is 5 less than that of goats which are twice as many as cows. What is the total number of animals in his farm?
 A. $5t + 5$ B. $2t - 5$
 C. $5t - 5$ D. $3t - 5$
25. Yasmin read $\frac{2}{5}$ of a book on Tuesday, $\frac{1}{3}$ of the book on Wednesday and the rest on Thursday. If the book had 150pages, how many pages did she read on Thursday?
 A. 50 B. 60
 C. 40 D. 110
26. Which of the following properties is not true of a rhombus and a square?
 A. All sides are equal.
 B. Diagonals are perpendicular bisectors.
 C. Diagonals are not equal.
 D. Has two pairs of parallel sides.
27. Simplify the following;
 $7(k + 2 + 4m) + 5(2k + 3 - m)$
 A. $17k + 23m + 29$ B. $3k + 3m + 29$
 C. $9k + 27m + 17$ D. $17k + 3m + 5$
28. 8 men can do a piece of work in 15 days. How many more men are needed to complete the work in 12days?
 A. 2 B. 10
 C. 15 D. 3

29. Calculate the area of the figure below.

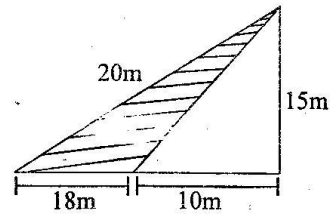


- A. 320cm^2 B. 240cm^2
 C. 192cm^2 D. 384cm^2
30. What is the value of p in the equation $\frac{2p-8}{3} + p = 2$?
- A. $2\frac{4}{5}$ B. 1
 C. $3\frac{4}{5}$ D. 14
31. A wheel of a motorbike covered a distance of 5.28km after making 2000 revolutions. What is the radius of the wheel in metres?
- A. 84m B. 0.42m
 C. 0.21m D. 0.21m
32. Find twice the value of $\frac{2p^2 - s + r}{r - s}$ given that $p = 4$, $r = 5$ and $s = 3$?
- A. 17 B. 9
 C. 34 D. 37
33. The diagram below represents a rectangular piece of land drawn to the scale of 1:20000

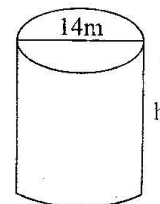


- What is the actual area of the land in hectares?
- A. 8hectares B. 0.8hectares
 C. 800 D. 80hectares
34. What is the value of $3^2(5 - 3 \times 4 + 10) \div 9 + 5 \times 2$?
- A. 36 B. 7
 C. 46 D. 13
35. Maingi bought 15 trays of eggs each at sh. 210. The eggs in one tray got broken. He then sold the remaining eggs at sh. 12 per egg. What profit did he make if each tray contain 30 eggs?
- A. sh. 2460 B. sh. 1890
 C. sh. 2100 D. sh. 5040

36. What is the area of the shaded part in the figure below?



- A. 150m^2 B. 120m^2
 C. 135m^2 D. 180m^2
37. Which one of the following groups of measurements represents the length of the sides of a right angled triangle?
- A. 7cm, 12cm, 13cm B. 5cm, 4cm, 25cm
 C. 3cm, 4cm, 35cm D. 12cm, 16cm, 20cm
38. Somi deposited sh. 10800 in a bank which paid simple interest at a certain rate. After 10 months he withdraw a total of sh. 11340. At what rate per annum was the interest?
- A. 6% B. 0.5% C. 12.6% D. 10%
39. Ahmed is a salesman who earns a basic salary of sh. 8500 plus a 5% commission on goods sold above sh. 50000. If in the month of December he earned a total of sh. 12000, how much sales did he make that month?
- A. sh. 70000 B. sh. 120000
 C. sh. 300 000 D. sh. 100000
40. Construct a triangle XYZ in which line $YZ = 7\text{cm}$, line $XZ = 8\text{cm}$ and line $XY = 6\text{cm}$. Draw a perpendicular bisector of line XZ to meet YZ at M. Draw a line joining X and M. Measure the line XM
- A. 6.6cm B. 5.8cm
 C. 7.2cm D. 8.4cm
41. What is the place value of digit 5 in the number 8735341?
- A. Ones B. Hundreds.
 C. Thousands D. Ten thousands.
42. The surface area of the open cylindrical tank below is 394m^2 .



If the diameter is 14m, find the height of the container

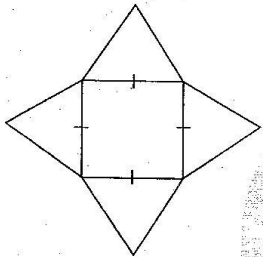
(Take $\pi = \frac{22}{7}$)

- A. 10m B. 15m C. 25m D. 20m

43. Which of the following is the correct order of the fractions $\frac{5}{8}, \frac{3}{5}, \frac{1}{2}, \frac{2}{3}$ arranged from the largest to the smallest?

- A. $\frac{2}{3}, \frac{3}{5}, \frac{5}{8}, \frac{1}{2}$ B. $\frac{1}{2}, \frac{3}{5}, \frac{5}{8}, \frac{2}{3}$
 C. $\frac{5}{8}, \frac{3}{5}, \frac{2}{3}, \frac{1}{2}$ D. $\frac{2}{3}, \frac{5}{8}, \frac{3}{5}, \frac{1}{2}$

44. Below is a net of a solid



What is the name of the solid that can be formed by the above net?

- A. Triangular pyramid.
 B. Square pyramid.
 C. Square prism.
 D. Triangular prism.
45. The table below shows the cost of sending letters and postcards by the post office

Letters	sh	cts
Not over 50g	2	50
Not over 100g	3	00
Not over 250g	5	00
Not over 500g	9	70
Postcards (single card)	3	30

Kanjama posted the following:

A letter weighing 270g

Two letters each weighing 240g

Two letters each weighing 495g

One postcard

How much did he pay for the postage?

- A. sh. 30.40 B. sh. 32.70
 C. sh. 33.70 D. sh. 42.40
46. The hire purchase price of a digital television is 10% more than the marked price. Mustafa bought it by paying a deposit of sh. 1600 and monthly instalment of sh. 500 for 10 months. What was the marked price of the television?

- A. sh. 6400 B. sh. 6000
 C. sh. 6600 D. sh. 5940

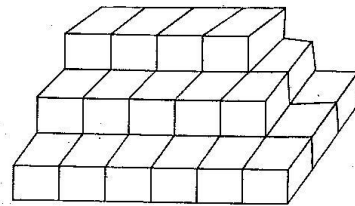
47. The mean mass of 36 pupils of std. 8 is 37kg. When the mass of their Maths teacher is added, the mean mass rises by 1kg. What is the mass of the teacher?

- A. 38kg B. 37kg
 C. 75kg D. 74kg

48. Construct triangle PQR in which line PQ = 6.5cm, QR = 5cm and PR = 7cm. Draw a circle touching the vertices of the triangle. What is the length of half the diameter?

- A. 7.2cm B. 4.3cm
 C. 3.6cm D. 6.4cm

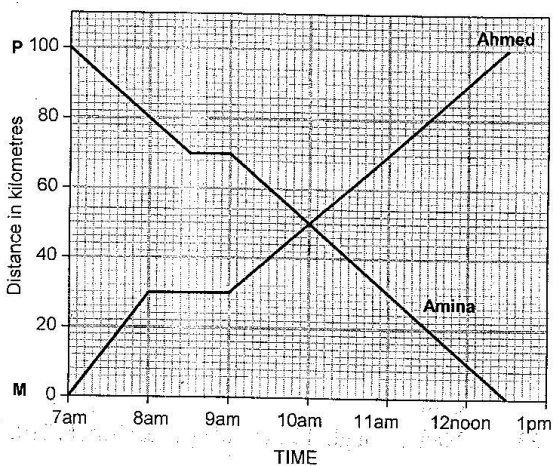
49. The diagram below shows the stack of cubes



How many cubes were used to make the stack above?

- A. 32 B. 72
 C. 48 D. 40

50. The graph below represents the journey for Ahmed and Amina. Ahmed left town M for P while Amina left town P for M



How far apart were the two travellers at 9.30am?

- A. 30km B. 10km
 C. 20km D. 35km