1. Which of the following numbers is one million two hundred and two thousand two hundred and two
A. 1200202
B. 1202200
C. 1202202
D. 1202002
2. What is the value of $\frac{6^{2}-4^{2}}{5}+2^{2}$ ?
A. 8
B. 4
C. 28
D. 9
3. What is 289.879 to the nearest tenth?
A. 289.88
B. 289.9
C. 289.00
D. 290.0
4. What is the square root of $6-$ ?
A. ${ }^{-}$
B. -
C. $3^{-}$
D. $2^{-}$
5. What is the total value of digit 7 in the number 2876542?
A. Ten thousands
B. 7000
C. Seventy thousand
D. Seven hundred thousand
6. The table below shows the number of milk delivered to Nyali plant first six month of the year 2016.

| Mont <br> $h$ | Jan | Feb | Mar | Apr | May | June |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Amt. <br> of <br> milk | 435 <br> 0 | 213 <br> 5 | 242 <br> 5 | 475 <br> 0 | 423 <br> 0 | 398 <br> 0 |

In which two consecutive months was the amount delivered highest?
A. May and June
B. January and February
C. April and May
D. January and May
7. The triangle ABC below is drawn accurately


What is the size of angle BCA?
A. $92^{0}$
B. $46^{0}$

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## MATHEMATICS STD 8

15. Oyalo bought three thermos flask at a total of shs. 1080. He later sold each of them at shs. 400 . What was his percentage profit?
A. $4 \%$
B. $11 \_\%$
C. $37-$ \%
D. $20 \%$
16. The figure below shows a parallelogram


What is the area of the parallelogram above?
A. $100 \mathrm{~cm}^{-}$
B. $500 \mathrm{~cm}^{4}$
C. $800 \mathrm{~cm}^{2}$
D. $750 \mathrm{~cm}^{2}$
17. Karani read ${ }^{1} 4$ of a story book on Monday, ${ }^{2}$ of it on Tuesday and the remainder on Wednesday. If the story book had 280 pages, how many pages did he read on Tuesday and
Wednesday together?
A. 210
B. 98
C. 70
D. 112
18. The mean age of 6 boys is 12 years if the ages of five of them is $13,14,9,15$ and 10 , how old is the sixth boy?
A. 11 years
B. 13 years
C. 12 years
D. 61 years
19. Construct a triangle JKL such that line JK $=6.5 \mathrm{~cm}$ KL $=7 \mathrm{~cm}$ and $\mathrm{LJ}=8 \mathrm{~cm}$. Draw a circle touching points JKL. What is the length of the diameter?
A. 4.2 cm
B. 4 cm
C. 2 cm
D. 8.4 cm
20. The table below shows arrival and departure times for buses of a certain route from town A to town E

| TOWN | ARRIVAL | DEPATURE |
| :--- | :--- | :--- |
| A. |  | 8.30 AM |
| B. | 9.30 AM | 9.35 AM |
| C. | 11.40 AM | 12.10 NOON |
| D. | 2.45 PM | 3.00 PM |
| E. | 4.45 PM | 5.00 PM |

How long does it take the bus to travel from town C to town E
A. 4 hrs 35 min
B. $4 \mathrm{hrs} \quad 50 \mathrm{~min}$
C. $4 \mathrm{hrs} \quad 45 \mathrm{~min}$
D. $5 \mathrm{hrs} \quad 05 \mathrm{~min}$
21. Ken and Kelvin shared some money in the ratio3:4 Kelvin got shs. 3600 more than
Ken. How much money in total were they sharing
A. Shs. 10800
B. Shs. 3600
C. Shs. 14400 D. Shs. 25200
22. Joyce borrowed shs. 120,000 from a bank that charged a simple interest at the rate $12 \%$ per annum. How much money did she pay back after 2 years?
A. Shs. 28800
B. Shs. 14400
C. Shs. 148800
D. Shs. 134400
23. In the figure below ABCD is a rhombus Line ABF and DEF are straight lines Angle $\mathrm{BFE}=28^{\circ}$ and angle $\mathrm{BEF}=78^{\circ}$


What is the size of angle ADE?
A. $78^{\circ}$
B. $106^{\circ}$
C. $74^{\circ}$
D. $152^{\circ}$
24. What is the value of
$\frac{2 x-y}{n}+z$
$\mathrm{z}=5 \mathrm{y}=\mathrm{n} \mathrm{n}=4 \quad \mathrm{x}=3$
A. 7
B. 6
C. 8
D. 12
25. A closed cylindrical tin has a radius of 14 cm and a height of 20 cm . what is the area of the curved surface?
A. $1760 \mathrm{~cm}^{2}$
B. $12320 \mathrm{~cm}^{2}$
C. $1232 \mathrm{~cm}^{2}$
D. $2376 \mathrm{~cm}^{2}$
26. How many edges faces and vertices do the net drawn below have when folded into a solid ?

27. Regina earns a total of shs. 16250 after working for 25days. How much more would she earn if she works for 32 days?
A. Shs. 20800
B. Shs. 4550
C. Shs. 650
D. Shs. 14300
28. The pie chart below show how Omunga spends his monthly salary of shs. 36000.


How much more does he spend on school fees than on entertainment?
A. Shs. 2400
B. Shs. 12000
C. Shs. 9600
D. Shs. 7200
29. Njau left home for the market at 9.30 am and took 2 hrs 40 min . He stayed at the market for 1h 20 min . the time taken to travel to the market is twice the time taken to travel back home?
A. 2.50 pm
B. 12.10 pm
C. 1.30 pm
D. 2.30 pm
30. In the figure below line $A B$ is parallel to line CD . Line EF and GH are transversal

A. Angle J and h are co- interior angles
B. Angle n and h are vertically opposite angles.
C. Angle k and e are corresponding angles.
D. Angle $m$ and $o$ are co-interior angles
31. Which of the following is the simplest form of the expression.

- $(6 x+12 y)-{ }^{-}(3 x-6 y)$
A. $5 \mathrm{x}+10 \mathrm{y}$
B. $3 x+6 y$
C. $5 x+6 y$
D. $3 x+10 y$

32. The figure below shows a trapezium

$$
23 \mathrm{~cm}
$$

15 cm

27 cm
What is its area?
A. $750 \mathrm{~cm}^{2}$
B. $375 \mathrm{~cm}^{2}$
C. $405 \mathrm{~cm}^{2}$
D. $345 \mathrm{~cm}^{2}$
33. On the triangle PQR drawn below drop a perpendicular from point R to meet line PQ at X

R

P
Q
What is the length of line PX
A. $4.7 \mathrm{~cm} \mathrm{B}$.
C. 4 cm
D. 7 cm
34. The number of elephants at Tsavo national park increased by 4500 to 18000 . What was the percentage increase?
A. $25 \%$
B. $20 \%$
C. $40 \%$
D. $33{ }^{1} \%$
35. Calculate the volume of the cylindrical container below in $\mathrm{m}^{3}$

56 cm

## 80 cm

A. $0.78848 \mathrm{~m}^{3}$
B. $7.8848 \mathrm{~m}^{3}$
C. $78.888848 \mathrm{~m}^{5}$
D. $788.48 \mathrm{~m}^{3}$
36. A rectangular plot of land is 840 mlong by 560 m wide. The land is to be fenced using four strands of wire. What is the length of the wire required in metres?
A. 1400 m
B. 2800 m
C. 11200 m
D. 5600 m
37. Four boys contributed money as follows John 0.16, Tony 0.26, James0.36 and Reagan the rest. If the total amount contributed was shs. 2400 . How much was contributed by Reagan?
A. Shs. 864
B. Shs. 624
C. Shs. 384
D. Shs. 528
38. Kyalo bought the following items from a shop. 2-2kg packets of wheat flour at 120
per packet
3kg sugar @ shs. 112
$1 / 2$ kg salt for shs. 45
3litres cooking oil@ shs. 165
3 rolls of tissue for shs. 90
How much balance did he get if he paid using $3-500$ shillings note?
A. Shs. 1206
B. Shs. 294
C. Shs. 234
D. Shs. 1266
39. The figure below shows a rhombus whose diagonals are 16 cm and 30 cm


What is the perimeter of the rhombus?
A. 240 cm
B. 136 cm
C. 96 cm
D. 68 cm
40. In a park there are Lions, Cheettah and Leopard. The number of cheetah are twice as many as lions. The number of leopards are a quarter of lions. If the number of lion is $y$ what is the total number of leopards lions and cheetah in the park?
A. $2-y$
B. 10 y
C. 4-y
D. 3-y
41. What is the value of $X$ in the equation
A. 5
B. 10
C. 18
D. 9
42. The area of a right angled triangle is $30 \mathrm{~cm}^{2}$ the length of the shortest side is 5 cm . what is the perimeter of the triangle?
A. 30 cm
B. 24 cm
C. 13 cm
D. 12 cm
43. Munya spent $1_{9}$ of the salary on transport ${ }^{3} 4$ of the remainder on school fees and the rest on food and rent. how much did he spend on food and rent if his salary is sh. 10800?
A. Shs. 8400
B. Shs. 3600
B. Shs. 2400
C. Shs. 1500
44. The marked price of a T.V is sh. 24000. Kammau paid shs. 21120. What percentage discount was he given?
A. $22 \%$
B. $18 \%$
C. $20 \%$
D. $12 \%$
45. Jackline had 100 kg of rice which he packed as follows
Half into $250 g$ packets
One quarter into 500 g packets
The remainder into 1 kg packets. how many packets in total did he get
A. 200
B. 275
C. 250
D. 300
46. The figure below shows a table mat


What is the perimeter of the table mat?
A. 286 cm
B. 468 cm
C. 143 cm
D. 280 cm
47. A bus left Mombasa for Nairobi at 9.45 pm on Thursday. The journey took 9 hr 45 min . At what day and time did the bus get Nairobi?
A. Friday 8.30am
B. Friday 7.30 am
C. Thursday 7.30am
D. Thursday 8.30 pm
48. The marked price of a generator is shs. 30000 . The hire purchase price is $120 \%$ of the marked price . jasmin paid a deposit of shs. 9000 and the rest in 12 equal monthly instalments. How much was each instalment?
A. Shs. 1750
B. Shs. 1500
C. Shs. 2500
D. Shs. 2250
49. The mean mass of five boys is 46 kg four of the boys weighs $47,48,42$ and 43 . What is the mass of the fifth boy?
A. 45
B. 40
C. 50
D. 35
50. The graph below show the journey by Ouma from town K to town L


What was the average speed in $\mathrm{km} / \mathrm{hr}$.
A. $20 \mathrm{~km} / \mathrm{hr}$
B. $30 \mathrm{~km} / \mathrm{hr}$
C. $15 \mathrm{~km} / \mathrm{hr}$
D. $12 \mathrm{~km} / \mathrm{hr}$

