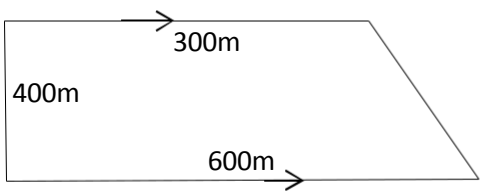
SHINYALU SOUTH CLUSTER

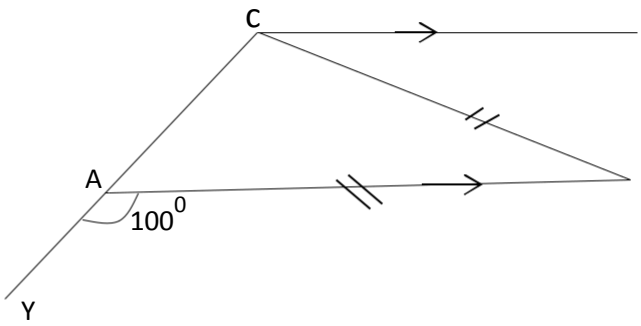
MATHEMATICS STD SEVEN (7) – 2020

1. Write six million forty three thousands and twenty one.
   A. 6040321
   B. 6403 021
   C. 6430021
   D. 6043021
2. Work out:
   24÷3+4X5–8÷4X10+1

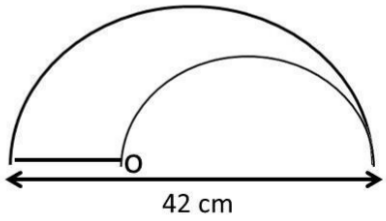
   A. 9 B. 11
   C. 13 D. 15
3. Round off the following numbers to the nearest thousand 59801
   A. 59000 B. 60000
   C. 59800 D. 61000
4. Work out: $^{1}/_{2}$ of ($^{2}/_{4}$ - $^{2}/_{5}$) ÷ 2 $^{4}/_{5}$
   A. $^{1}/_{16}$
   B. $^{1}/_{28}$
   C. $^{13}/_{56}$
   D. $^{1}/_{56}$
5. What is the value of 23 ÷ 7 correct to 2 decimal places
   A. 3.28 B. 3.29
   B. 3.286 D. 3.285
6. John covered 72 km in two hours. Work out his speed in m/s
   A. 144m/s B. 36m/s
   C. 10m/s D. 20m/s
7. What is the perimeter of the figure drawn



   A. 1.8 km
   B. 1800km
   C. 18000km
   D. 180km
8. In the figure below AB = BC and AB is parallel to CX. If angle BAY = 100^{0}. Find angle BCX

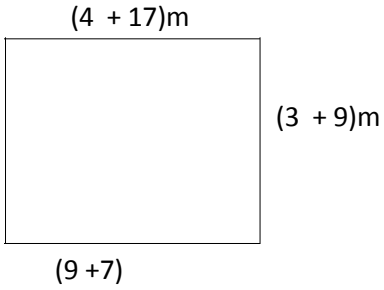


   A. 50^{0} B.80^{0}
   C. 20^{0} D.40^{0}
9. What is the least number that should be subtracted from 4127 to make it divisible by 11
   A. 2B.1 C. 3
10. What is the sum of LCM and GCD of the numbers 18, 24 and 72
    A. 6 B. 72
    C. 78 D. 66
11. The price of a car was sh. 250, 000. After are year the price had dropped to sh. 180,000 what was the percentage decrease?
    A. 28% B. 20%
    C. 72% D. 26%
12. In the following figure O is the centre of the circle diameter 42cm. what is the perimeter of the figure?



    A. 66cm B.87cm
    C.1 20cm D. 108cm

13. Calculate the area of the figure below in ares



A. 0.375 B. 3.75
C. 37.5 D. 375

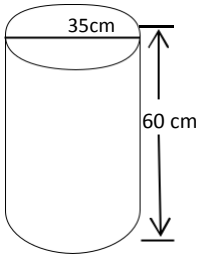
14. Calculate the square root of $5^{4}/_{9}$

A. $2\frac{1}{3}$ B. $1\frac{2}{9}$
C. $\frac{7}{9}$ D. $16\frac{4}{9}$

15. Construct triangle XYZ in which YZ =6cm angle XYZ = 87 and angle YZX= 55^{0} . Find the measure of the radius of a circle the touches the vertices of triangle XYZ

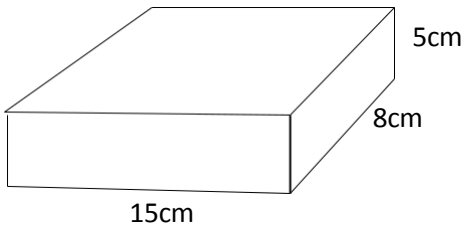
A. 6cm B. 42cm C. 4.9 cm D. 7cm

16. The figure represents a pipe, find its surface area?



A. $962.5cm^{2}$
B. $660cm^{2}$
C. $6600\ cm^{2}$
D. $66000cm^{2}$

17. What is the total length of all the edge in the figure below



A. 28cm
B. 470cm
C. 600cm
D. 112cm

18. Arrange the following fractions from the smallest to the largest $^{4}/_{5}$, $^{5}/_{7}$, $^{8}/_{11}$, $^{7}/_{9}$

A. $^{4}/_{5}$, $^{7}/_{9}$, $^{8}/_{11}$, $^{5}/_{7}$
B. $^{5}/_{7}$, $^{8}/_{11}$, $^{7}/_{9}$, $^{4}/_{5}$
C. $^{4}/_{5}$, $^{7}/_{9}$, $^{7}/_{9}$, $^{8}/_{11}$
D. $^{4}/_{5}$, $^{5}/_{9}$, $^{7}/_{9}$, $^{8}/_{11}$

19. The following are properties of a quadrilateral

I. Diagonal are equal
II. Diagonal bisect each other
III. Two pairs of parallel lines
IV. Interior angles are equal

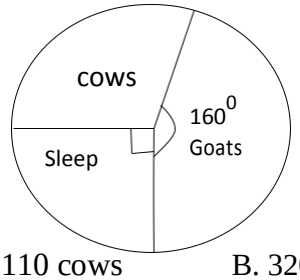
The quadrilateral described above is

A. Square B. Rectangle
C. Rhombus D. parallelogram

20. From which of the following sets of measurements can aright – angled – triangle be drawn?

A. 8cm , 15cm, 17cm
B. 7cm, 8cm , 5cm
C. 15cm , 60cm, 61cm
D. 14cm 24cm 25cm

21. The pie chart below shows three types of animals in a farm. There are 720 animals altogether. How many cows are there?



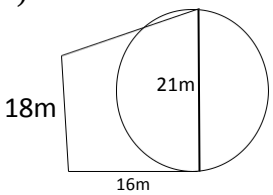
A. 110 cows B. 320 cows

C. 220 cows D. 180 cows

22. Muholo spent $^{1}/_{3}$ of his salary on food ¼ on rent $^{3}/_{5}$ of the reminder on clothes and saves the rest. What fraction did he save

A. $^{7}/_{12}$ B. $^{5}/_{12}$ C. $^{1}/_{6}$ D. $^{1}/_{4}$

23. What is the area of the figure below (Take $\pi = {}^{22}/_{7}$)



A. $173.25m^{2}$ B. $312m^{2}$.
C. $138.75m^{2}$ D. $485.25m^{2}$

24. Ng'ang'a earn a commission of 5% an goods sold. If he earned sh. 8000. Work out the total value of the goods sold.

A. Sh. 18000 B. sh. 4500
C. Sh. 40000 D. Sh. 160000

25. A girl is x years old. Her mother is three times older than the girl. The sum of their age is 48. What is the age of the girl?
A. 32 year B. 12 years
C. 36 years D. 10 years

26. Study The postage table below

Letters (maximum mass)	Amount Shs Cts
Not over 50g	7. 00
Not over 100g	11.00
Not over 200g	11.00
Not over 300g	19.50
Not over 400g	23.00
Not over 500g	31.50
Post cards	2.50

Kamau posted two letter weighing 90 g and 300g. he also sent six post cards how much money was he changed at the post office
A. Sh . 45.50 B. Sh. 31
B. C. Sh. 15 D. Sh. 46

27. Six men can paint a house in 4 hours How many more men are required to paint the house in 2hrs
A. 12 B. 3
C. 2 D. 6

28. Simply $^{2}/_{5}(5x - 10y) + {}^{1}/_{3}(x + 15y)$
A. $1^{1}/_{3}x + y$
B. $2^{1}/_{3}y + x$
C. $2^{1}/_{3}x + y$
D. $X + y$

29. Convert $0.784m^3$ into cm^3
A. $783cm^3$
B. $784000cm^3$
C. $784cm^3$
D. $78400\ cm^3$

30. Christine borrowed sh. 30,000 from a bank. If she paid interest at the rate of 10% p.a for 2 years how much did he pay as simple interest?
A. Sh. 36000
B. Sh. 6000
C. Sh. 33000
D. Sh. 3000

31. The hire purchase of a t.v set was 125% of cash price. Yusuf bought the T.V set an hire purchase terms by paying a deposit sh. 2500 and 12 monthly installments of 850 each. what was the cash price of the TV set
A. Sh. 12700 B. Sh. 10160
C. Sh. 10200 D. Sh. 11200

32. What is $\sqrt{56\frac{1}{4}}$?
A. $8^{1}/_{2}$
B. $7^{1}/_{2}$
C. $9^{1}/_{2}$
D. $6^{1}/_{2}$

33. Express $^{3}/_{7}$ as a decimal correct to 3 decimal places
A. 0.439 B.0.4286
C. 0.4286 D. 0.429

34. The table below shows patients who visited a certain hospital for diabetes test

Mon	Tue	Wed	Fri	Sat
45	50	75	60	55

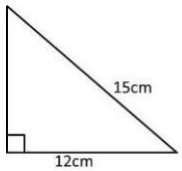
How many more patients visited the hospital on Wednesday than on Monday
A. 11 B. 210
C. 30 D. 20

35. Convert 600ml into deciliters
A. 60dl B. 6000dl
C. 6dl D. 0.6dl

36. What is the place value of digit 4 in the product of 2.47 and 10.67
A. Tenths
B. Thousandths
C. Hundredths
D. Hundreds

37. Jane bought a radio at sh. 2500. He later sold it at sh. 3250. What was his percentage profit?
A. 3%
B. 30%
C. $4^{1}/_{3}\%$
D. $40^{1}/_{3}\%$

38. Calculate the area of a triangle.

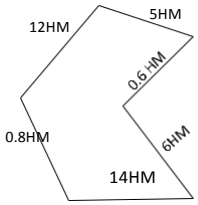


A. $300cm^2$ B. $42cm^2$
C. $54cm^2$ D. $150cm^2$

39. Work out: $\frac{0.045 \times 7.5}{0.025}$
A. 13.5
B. 0.135

C. 0.00135
D. 1.35

40. Find the distance round the figure in metres

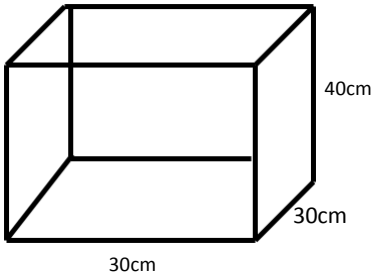


A. 3390m B. 3840m
C. 3400m D. 3380m

41. What is the value of a^2 (2b -c), if a=4, b=3 c=2

A. 94 B. 16
C. 64 D. 32

42. Find the capacity of water in the container shown below?



A. 0.36 L
B. 36L
C. 360L
D. 3600L

43. Increase 300 in the ratio 4:3

A. 360
B. 290
C. 400
D. 298

44. Ambrose started his journey at 8.30p.m. If the journey took $5^1/_2$ hours, what time in 24hr clock system did he complete his journey?

A. 0100h
B. 0200h
C. 1400h
D. 1300hr

45. What is the product of the mode and the median of the following numbers?
3, 4, 5, 7, 3, 12, 4, 7, 3

A. 20
B. 9
C. 12
D. 49

46. What number should be in box marked T

T	2	
	6	8
	10	3

A. 9
B. 5
C. 4
D. 7

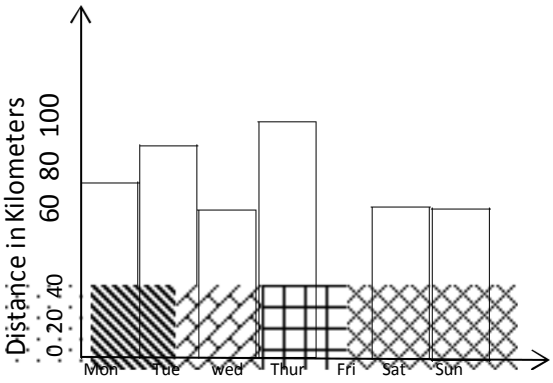
47. Water which had a temperature of 58^0c was cooled to -12^0c. Calculate the drop in temperature.

A. -70^0c
B. 58^0c
C. 70^0c
D. 46^0c

48. What is the total value of digit 2 in 462895?

A. Thousands B. 200
C. Hundreds D. 2000

The graph below shows distance covered by a salesman on different days. Use it to answer question 49-50.



49. On which day did the salesman not travel?

A. Monday
B. Friday
C. Saturday
D. Wednesday

50. What was the total distance travelled by the salesman in the week?

A. 420km B. 430
C. 90km D. 100km