STANDARD SEVEN END TERM 2 EXAM, 2017

MATHEMATICS

1. What is eighty seven million six hundred and five thousand one hundred and twenty three in figures?
   A. 87650132
   B. 87605123
   C. 8765123
   D. 87065123

2. Calculate the total value of the digit in the hundredth place value in the following number 29.3875
   A. 0.8 B. 0.008
   C. 800 D. 0.08

3. Work out the following;
   $\left(\frac{3}{4}\right)^2 - \left(\frac{1}{3}\right)^2$
   A. $\frac{65}{144}$ B. $\frac{59}{144}$
   C. $\frac{7}{12}$ D. $\frac{97}{144}$

4. Work out; $\sqrt{0.2209}$
   A. 47 B. 4.7
   C. 0.47 D. 0.047

5. Which of the following numbers is not divisible by eleven?
   A. 16236 B. 10637
   C. 10594 D. 1419

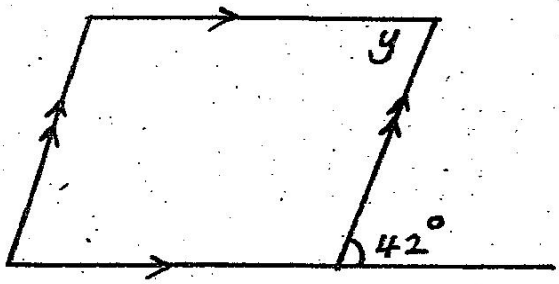
6. Find the sum of the next two numbers;
   3, 8, 15, 26, _____, _____
   A. 56 B. 75
   C. 67 D. 95

7. Convert 1.032 to a percentage;
   A. 1032%
   B. 103.2%
   C. 10.32%
   D. 1.032

8. Work out: $\frac{84. \times 3.2}{7 \times 8}$
   A. 0.48 B. 48
   C. 0.048 D. 4.8

9. What is the value of;
   $6\frac{5}{9} - \frac{4}{5} - 1\frac{1}{4} =$
   A. $4\frac{11}{20}$ B. $5\frac{1}{180}$
   C. $4\frac{91}{180}$ D. $5\frac{81}{180}$

10. Find the value of the angle marked y in the figure below



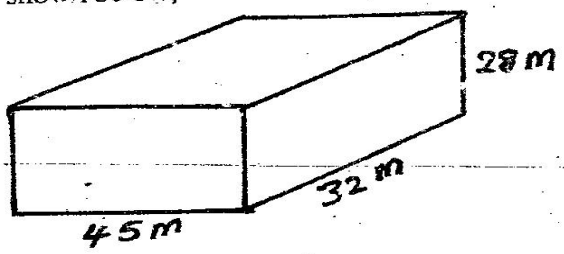
   A. 84° B. 69°
   C. 138° D. 42°

11. A trader bought 420 oranges in piles of six at sh. 7.50 per pile. He later sold them at sh. 630. What was his percentage profit?
   A. 25%
   B. 105%
   C. 20%
   D. 30%

12. A square seedbed has an area of 784 square metres. What is the perimeter of the square?
   A. 112m
   B. 56m
   C. 28m
   D. 196m

13. Convert $^7/_{16}$ into a decimal correct to three decimal places;
   A. 0.44
   B. 0.438
   C. 0.4375
   D. 0.437

14. Find the surface are of a closed cuboid shown below;



A. B.
C. D.

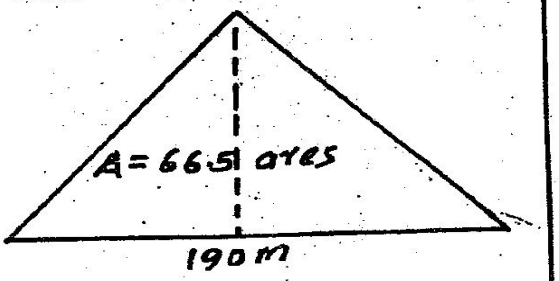
15. What is the place value of digit 2 in the product of 28.5 and 1.92?
A. Tenths
B. Hundreds
C. Hundredths
D. 0.02

16. Evaluate; $1^{2}/_{5} \times 2^{1}/_{2} \div 3^{1}/_{2}$
A. $12^{1}/_{4}$ B. $3^{1}/_{2}$
C. $6^{1}/_{10}$ D. 1

17. In a store there were 500 bags of beans. A lorry transported 30 bags on each trip. How many bags did it transport in the last trip?
A. 20 B. 36
C. 40 D. 16

18. What is the radius of a circle whose circumference is 396cm?
($\pi = 3^{1}/_{7}$)
A. 252cm
B. 63cm
C. 126cm
D. 18cm

19. Calculate the height of the triangular plot below whose area is 66.5Ares and its base is 190m



A. 70m
B. 80m
C. 140m
D. 35m

20. Kaguoya borrowed sh. 720000 for 2 years from a bank. The bank charged 14% p.a simple interest. How much interest did he pay after the 2years?
A. sh. 921600
B. sh. 210600
C. sh. 519000
D. sh. 201600

21. Atieno bought the following items;
$3^{1}/_{2}$kg of sugar @ sh. 96
$2^{1}/_{4}$kg of rice @ sh. 84
2 loaves of bread for sh. 110
3 litres of milk @ sh. 65
She paid for the items using a one thousand shilling note. How much balance did she get?
A. sh. 170
B. sh. 60
C. sh. 940
D. sh. 830

22. A tailor sold a dress for sh. 1600 making a profit of sh. 400. What was her percentage profit?
A. 15% B. $33^{1}/_{3}$%
C. 20% D. 25%

23. Simplify;

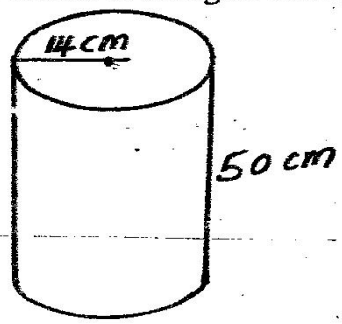
$$\frac{3}{7}(14c+28d)+\frac{1}{4}(4c-16d)$$

A. 18d + 5c
B. 7c + 16d
C. 7c + 8d
D. 5c + 8d

24. Samuel used thirty 100ml jugs and forty 2dl cups to fill a container. What is the capacity of the container in litres?
A. 70litres
B. 83litres
C. 38litres
D. 11litres

25. The marked price of a suit is sh. 4000. Musa paid sh. 3400 for the suit after being given a discount. What was the percentage discount?
A. 30%
B. 15%
C. 600%
D. 25%

26. Find the volume of the figure below;



A. 30800cm³
B. 616cm³
C. 5632cm³
D. 123200cm³

27. What is the area of a parallelogram whose base length is 25cm and height of 12cm in square metres?
A. 3 B. 300
C. 0.03 D. 30

28. Decrease $^{5}/_{6}$ by 40%
A. $1^{1}/_{6}$ B. $^{1}/_{2}$
C. $^{1}/_{3}$ D. $^{1}/_{6}$

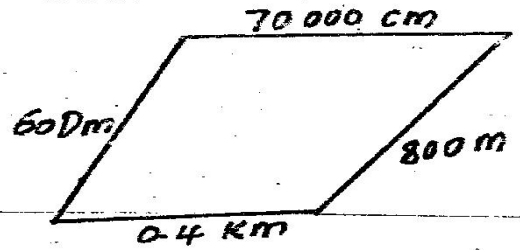
29. How many times will a bicycle wheel whose radius in 42cm will turn to cover a distance of 9.108 km?
A. 3450 B. 3.45
C. 345 D. 3540

30. Electric posts were planted at intervals of 500m along a road 85km long. How many posts were planted?
A. 17 B. 18
C. 171 D. 170

31. A farmer harvested 32292 bags of maize in year 2013. This was 30% increase of the previous year. How many bags did he harvest in the year 2012?
A. 24840 B. 26380
C. 7452 D. 27530

32. Janet's sitting room measures 14m by 12m. She fitted a carpet into the room that left a 50cm gap along the length and 40cm along the width uncovered. What was the area of the carpet?
A. 1008m²
B. 145.6m²
C. 200m²
D. 168m²

33. The figure below shows the distance between different centres.

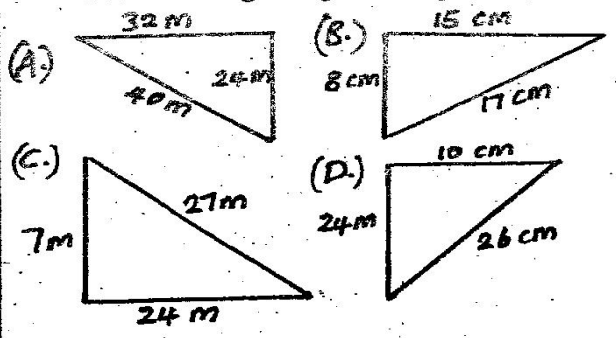


What is the distance round the figure in Dekametres?
A. 70860.4 B. 108
C. 250 D. 880

34. Convert 3.8% into a decimal;
A. 0.38
B. 38.0
C. 0.038
D. 0.0038

35. A Tv costs sh. 36000 on hire purchase. Oloo paid a deposit of sh. 8000 followed by 7 equal monthly instalments. How much was each intalment?
A. sh. 56000
B. sh. 44000
C. sh. 28000
D. sh. 4000

36. Which one of the following triangles will not form a right-angled triangle?



37. Work out; $7 - x < x + 3$
A. 1 B. 2
C. 0 D. 11

38. What is the sum of the LCM and the GCD of 30, 45 and 60?
A. 195 B. 12
C. 2700 D. 165

39. Work out: $(17.5 + 3.9)^2$
A. 457.96 B. 42.8
C. 4.5796 D. 21.4

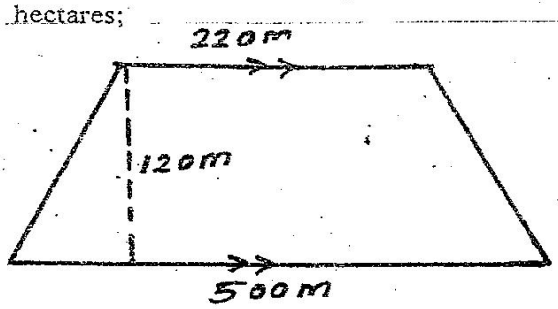
40. Find the value of:

$$\frac{3a+b^2+c}{2a+b}$$

when a = 4, b = a + 1 and c = ½a

A. $4^7/_8$ B. 4¼
C. 3½ D. 3

41. Calculate the area of the figure below in hectares;



A. 864
B. 432
C.4.32
D. 8.64

42. A family uses 18litres of milk per week. How many decilitres of milk does it use in 5 weeks?

A. 9 B. 900
C. 90 D. 23

43. A matatu covered a distance of 225km in two and half hours. What was its speed in metres per second?

A. 20m/s
B. 90m/s
C. 25m/s
D. 50m/s

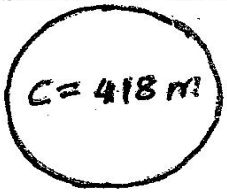
44. A county executive meeting started at 10.50am and took 6hours 40minutes. At what time did the meeting end?

A. 1730hrs
B. 5.30am
C. 4.30pm
D. 5.30pm

45. Using a ruler and protractor only construct triangle QRS such that angle RQS = 65°, line QS = 6cm and angle QSR = 60°. What is the measure of line QR?

A. 6cm
B. 5.5cm
C. 6.5cm
D. 7cm

46. What is the radius of a circle whose circumference is 418m? ($\pi = 3^1/_7$)

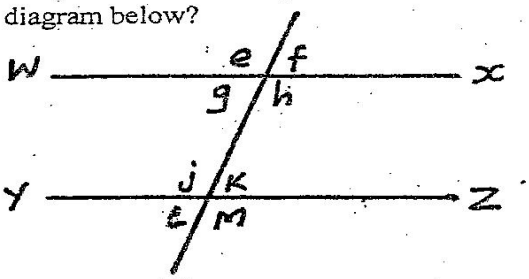


A. 266 B. 66.5
C. 133m D. 209m

47. Twenty eight kilograms of sugar was packed into 500g and 250g packets. If there were 20 packets of 500g, how many 250g packets were there?

A. 18 B. 7.2
C. 10 D. 72

48. Which of the following is true about the diagram below?



A. g + k = 180°
B. e + m = 180°
C. j + h = 180°
D. g + m = 180°

49. A rectangular tank has a length of 2m by 1.5m by 4m. What is its capacity in litres?

A. 1200 B. 12000
C. 12 D. 120

50. Which of the following will make an open cube?