

# STANDARD SEVEN MID TERM 1 EXAMS-2019

## MATHEMATICS

1. You have been given this question paper and a separate answer sheet. The question paper contains 50 questions.
2. Make sure that you have written on the answer sheet

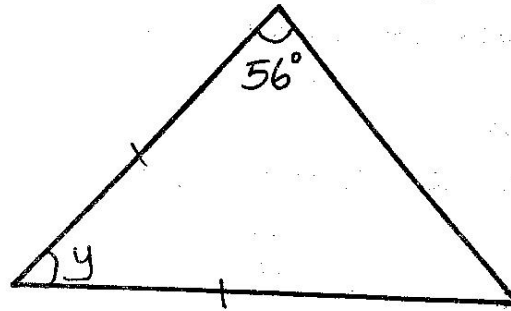
(i) Your name

(ii) Name of your school

TIME: 2HRS

1. Which one of the following is six million six hundred and forty nine thousand three hundred and one in figures?  
A. 6649301                      B. 664931  
C. 60649501                     D. 600649301
2. What is the place value of digit 4 in the number 304182?  
A. Thousands                    B. Hundreds  
C. Tens                            D. Ones
3. Round off 38946 to the nearest thousands.  
A. 8000                            B. 38000  
C. 39000                          D. 9000
4. What is the value of;  $5(2^2 + 3^2)$  ?  
A. 325                              B. 50  
C. 125                              D. 65
5. The area of a rectangular plot is  $2800\text{m}^2$ . If its width is 40m, what is its perimeter?  
A. 140m                            B. 490m  
C. 160m                            D. 220m
6. What is the value of;  $\frac{2}{5}$  of  $1\frac{2}{3} + \frac{3}{4}$  ?  
A.  $\frac{8}{25}$                                 B.  $\frac{1}{2}$   
C.  $\frac{8}{9}$                                  D.  $\frac{9}{50}$
7. What is  $0.000364 \div 0.002$  ?  
A. 0.182                            B. 1.82  
C. 18.2                              D. 0.0182

8. Find the value of angle marked y



- A.  $98^\circ$                               B.  $58^\circ$   
C.  $78^\circ$                               D.  $68^\circ$
9. A staff meeting started at 9.45a.m and ended at 2.40p.m. How long did the meeting take?  
A. 8hrs 5min                      B. 6hrs 5min  
C. 12hrs 25min                    D. 4hrs 55min
  10. Multiply:-  
 $5885 \times 227 =$  \_\_\_\_\_  
A. 14589                            B. 35895  
C. 135895                          D. 1335895
  11. Which of the following numbers is divisible by 6?  
A. 94242  
B. 260594  
C. 724946  
D. 830134
  12. What is  $(1\frac{3}{8})^2$  ?  
A.  $\frac{9}{64}$                                 B.  $1\frac{57}{64}$   
C.  $\frac{11}{2}$                                  D.  $5\frac{1}{2}$

Std 7 Maths

13. Simplify:-

$$\frac{0.24 \times 80}{0.4 \times 1.6}$$

- A. 30  
C. 0.03  
B. 3  
D. 0.003

14. Solve the inequality:-

$$11n - 14 < 7n + 14$$

- A.  $7 > n$   
C.  $n > 7$   
B.  $n = 7$   
D.  $n < 7$

15. A trader sold a pair of shoes for sh. 910 making a profit of 40%. What was the buying price?

- A. Sh. 870  
C. Sh. 1274  
B. Sh. 5870  
D. Sh. 650

16. What is the L.C.M of 3, 8, 10 and 12 ?

- A. 120  
C. 30  
B. 60  
D. 10

17. Convert 4% into decimal.

- A. 4  
C. 0.04  
B. 0.4  
D. 0.004

18. The area of a square plot is  $2601\text{m}^2$ . Find the length of one side.

- A. 650.25m  
C. 51m  
B. 61m  
D. 49m

19. What is the value of  $w$  in the equation?

$$5(2w - 4) = 6(w + 2)$$

- A. 16  
C. 2  
B. 8  
D. 4

20. What is the next number in the pattern?

$$\frac{4}{5}, 1\frac{3}{5}, 3\frac{1}{5}, \underline{\hspace{2cm}}$$

- A.  $6\frac{2}{5}$   
C.  $6\frac{1}{5}$   
B.  $5\frac{2}{5}$   
D.  $4\frac{2}{5}$

21. Simplify:-

$$5(a + b) + 4(2a - b)$$

- A.  $10a + 13b$   
C.  $13a + b$   
B.  $11a + b$   
D.  $13a - b$

22. Onyango is  $x$  years old. His father is three times as old as Onyango. How old is the father now?

- A.  $\frac{x}{3}$   
C.  $3x$   
B.  $x + 3$   
D.  $x - 3$

23. Kiprop bought the following items from a shop.

$1\frac{1}{2}\text{kg}$  of sugar at sh. 80

$\frac{3}{4}\text{kg}$  of rice @ sh. 60

$1\frac{1}{2}\text{kg}$  of fat for sh. 150

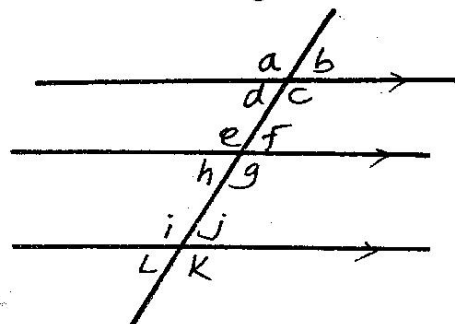
If she paid using a sh. 500 note, what balance was she given?

- A. Sh. 185  
C. Sh. 65  
B. Sh. 210  
D. Sh. 315

24. Kamau spent a  $\frac{1}{3}$  of his money on food and  $\frac{1}{8}$  on rent,  $\frac{1}{3}$  of the remainder on school fees and saved the rest. What is the total fraction of his money did he save?

- A.  $\frac{13}{24}$   
C.  $\frac{46}{72}$   
B.  $\frac{13}{36}$   
D.  $\frac{20}{72}$

25. Which of the following statements is true about the angles in the diagram below?

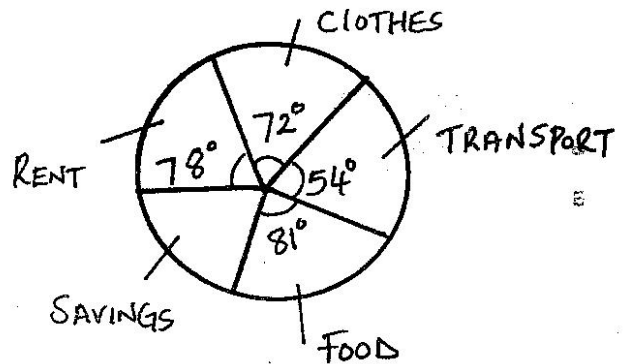


- A.  $a = f = i$   
C.  $a = e = k$   
B.  $a + c + f = 180^\circ$   
D.  $d + g + k = 360^\circ$
26. A square farm measures 16 hectares. Githu fenced it using 3 strands of barbed wire. What is the length of wire used in metres?

- A. 480m  
C. 45000m  
B. 4800m  
D. 1500m

27. Arrange  $\frac{3}{4}$ ,  $\frac{7}{9}$ ,  $\frac{4}{5}$ ,  $\frac{9}{11}$  in descending order.
- A.  $\frac{9}{11}$ ,  $\frac{4}{5}$ ,  $\frac{7}{9}$ ,  $\frac{3}{4}$       B.  $\frac{3}{4}$ ,  $\frac{4}{5}$ ,  $\frac{7}{9}$ ,  $\frac{9}{11}$
- C.  $\frac{3}{4}$ ,  $\frac{7}{9}$ ,  $\frac{4}{5}$ ,  $\frac{9}{11}$       D.  $\frac{9}{11}$ ,  $\frac{4}{5}$ ,  $\frac{3}{4}$ ,  $\frac{7}{9}$
28. On a map 3km is represented by 6cm. What is the scale of the map?
- A. 1:500                              B. 1:5000
- C. 1:50000                            D. 1:500000
29. Three bells ring at intervals of 10min, 15min and 18min respectively. If they were rang together at 11.20a.m, at what time will they ring together again?
- A. 90min                              B. 12.50a.m
- C. 12.50p.m                          D. 9.50a.m
30. Kemboi rolled a wheel of a bicycle for ten complete revolutions. The wheel covered a distance of 1.54km. What is the diameter of the wheel in metres?
- A. 49                                    B. 0.49
- C. 4.9                                    D. 490
31. The area of a right angled triangle is  $24\text{cm}^2$ . The base is 6cm. What is the perimeter of the triangle?
- A. 14cm                                B. 30cm
- C. 24cm                                D. 48cm
32. How many seconds are there in 3hrs 40minutes?
- A. 2580                                B. 3480
- C. 2400                                D. 13200
33. Four tonnes of tea leaves were packed in 250g packets. How many packets were obtained?
- A. 16                                    B. 160
- C. 1600                                D. 16000

34. The pie chart below shows how Kamau spent his salary. If he saved sh. 2500, what was the total amount spent on food and transport?

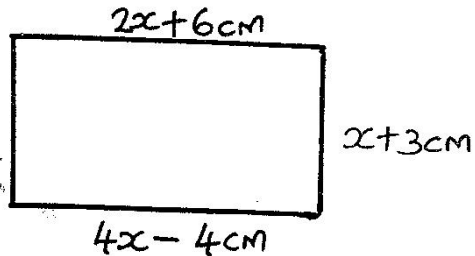


- A. Sh. 5000                            B. Sh. 2500
- C. Sh. 4500                            D. Sh. 12000
35. A train is moving at speed of 36km/hr. What is its speed in metres per second?
- A. 10m/s                                B. 5m/s
- C. 8m/s                                 D. 4m/s
36. Which of the following prime factorization of 72?
- A.  $2 \times 4 \times 3 \times 3$
- B.  $2 \times 3 \times 3 \times 4$
- C.  $2 \times 2 \times 2 \times 3 \times 3$
- D.  $2 \times 2 \times 2 \times 9$
37. Hussein bought a cow for sh. 18000. He later sold it at sh. 17100. What was the percentage loss?
- A. 5%                                    B. 50%
- C. 10%                                  D. 15%
38. Work out:-
- $19.58 + 0.975 + 21 = \underline{\hspace{2cm}}$
- A. 20.555                                B. 2864
- C. 41.555                                D. 415.55
39. Which is the least number that can be subtracted from 82789 to make it divisible by 11?
- A. 8                                        B. 3
- C. 1                                        D. 14

40. The perimeter of a rectangular plot of land is 280m. The width is 60m. What is the length of the plot?

- A. 110m                      B. 80m  
C. 70m                         D. 160m

41. What is the area of the figure below?



- A. 128cm<sup>2</sup>                    B. 80cm<sup>2</sup>  
C. 48cm<sup>2</sup>                    D. 5cm<sup>2</sup>

42. What is the square root of  $9\frac{49}{64}$ ?

- A.  $3\frac{7}{8}$                          B.  $2\frac{7}{9}$   
C.  $3\frac{1}{8}$                          D.  $3\frac{1}{4}$

43. Work out:-

$$6\frac{2}{3} \times 4\frac{1}{2} + 2\frac{5}{8}$$

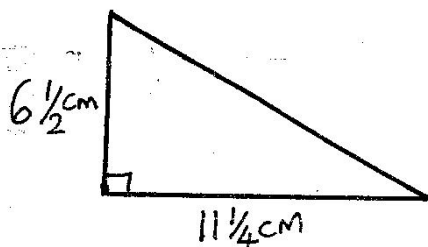
- A. 80                            B. 30  
C.  $11\frac{3}{7}$                         D.  $78\frac{3}{4}$

44. Divide:-

$$93786 \text{ by } 11$$

- A. 8524                         B. 8526  
C. 7526                         D. 8560

45. Find the area of the figure below



- A.  $38\frac{1}{2}\text{cm}^2$                 B.  $36\frac{9}{16}\text{cm}^2$   
C.  $40\frac{1}{4}\text{cm}^2$                 D.  $36\frac{1}{16}\text{cm}^2$

46. George bought a goat at sh. 1600 and sold it at sh. 1760. What was his percentage profit?

- A. 10%                         B. 30%  
C. 20%                         D. 15%

47. Joy sold  $\frac{1}{6}$  of her goats and was left with 30 goats. How many goats did she have?

- A. 36                            B. 6  
C. 5                              D. 25

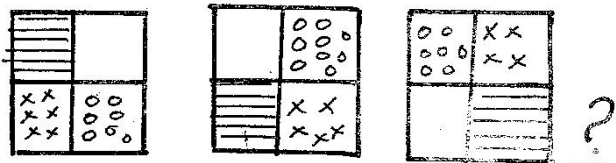
48. Construct triangle ABC such that  $AB = 4\text{cm}$ ,  $\angle CAB = 56^\circ$  and  $\angle ABC = 62^\circ$ . What is the length of line AC?

- A. 8cm                         B. 7.1cm  
C. 16cm                      D. 7.5cm

49. The mean of 5 numbers is 4.8. Four of these numbers are 4, 6, 2 and 9. What is the fifth number?

- A. 5                              B. 3  
C. 4                              D. 4.8

50. Study the pattern below. Which is the next pattern?



- A.
- B.
- C.
- D.