

# TARGETER WINGS STANDARD SEVEN - YEAR 2021



## CONTINUOUS ASSESSMENT TEST

### MATHEMATICS



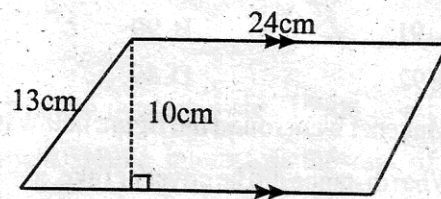
TIME: 2 hours

- Write 11101011.011 in words.
  - Eleven million, one hundred and one thousand and one and eleven thousandths.
  - Eleven million, one hundred and one thousand and eleven and eleven thousandths.
  - Eleven million, one hundred and one thousand eleven and eleven thousandths.
  - One hundred and eleven million, one thousand and eleven and eleven thousandths.
- What is the place value of digit 8 in the number 2943837?
  - Tens
  - Hundreds
  - Thousands
  - Tens of thousands
- What is 899560 rounded off to the nearest ten thousand?
  - 890000
  - 899000
  - 900000
  - 900560
- How many groups of hundreds are there in the total value of digit 8 in the number 183425?
  - 8000
  - 800
  - 80
  - 80000
- Increase 800 by 20%.
  - 160
  - 640
  - 1040
  - 960
- Find the value of k in  $\frac{3}{4}k + 7 = 19$ 
  - 12
  - 9
  - 16
  - $34\frac{2}{3}$
- Three bells ring at intervals of 30 mins, 40 mins and 20 mins. If they ring together at 8.00a.m., at what time will they ring together next?
  - 10.00a.m.
  - 9.00a.m.
  - 10.30a.m.
  - 11.00a.m.
- Kinyumu sold a bull for shs. 27000 making a loss of 10%. At what price had he bought it?
  - shs. 29700
  - shs. 26990
  - shs. 30000
  - shs. 24300

9. Work out  $\frac{0.48 \times 0.63 \times 0.6}{0.32 \times 0.15 \times 2.1}$

- 18
- 0.018
- 1.8
- 0.18

10. The figure below shows a parallelogram.



Calculate its area.

- $130\text{cm}^2$
- $240\text{cm}^2$
- $312\text{cm}^2$
- $256\text{cm}^2$

11. Work out  $\frac{1}{8} + \frac{1}{4} - \frac{1}{6} \times \frac{3}{8}$

- $\frac{9}{16}$
- $\frac{11}{16}$
- $\frac{25}{32}$
- $\frac{27}{32}$

12. Kamotho spends  $\frac{1}{3}$  of his day at school,  $\frac{1}{4}$  of his day during homework,  $\frac{3}{8}$  sleeping and the remaining time playing. What fraction of the day does he spend playing?

- $\frac{1}{12}$
- $\frac{11}{12}$
- $\frac{23}{24}$
- $\frac{1}{24}$

13. The area of a square plot of land is  $12\frac{1}{4}\text{m}^2$ . Find its perimeter?

- $\frac{7}{2}\text{m}$
- $3\frac{1}{2}\text{m}$
- $1\frac{3}{4}\text{m}$
- 14m

14. Express  $8\frac{3}{4}$  as a percentage.

A.  $\frac{875}{100}\%$                       B. 875%

C. 87.5%                      D. 0.875%

15. What is the next number in the pattern?

3, 7, 16, 32, 57, \_\_\_\_\_

A. 63                      B. 126

C. 93                      D. 83

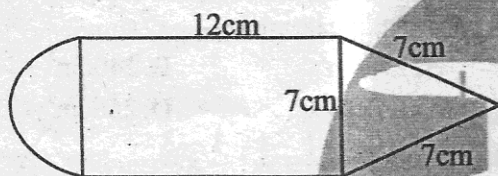
16. How many days are there between 1<sup>st</sup> January and 31<sup>st</sup> March 2020?

A. 91                      B. 90

C. 92                      D. 89

17. Makenzi went round the figure below twice.

What distance did he cover? (Take  $\pi = \frac{22}{7}$ )



A. 49cm                      B. 98cm

C. 56cm                      D. 120cm

18. What is the least number that should be subtracted from 740214 to make it divisible by 8?

A. 3                      B. 2

C. 6                      D. 5

19. Kaimenyi bought the following items from the shop.

$1\frac{1}{2}$  kg of meat for shs. 300.00

2kg of sugar @ shs. 87.50

3 rolls of tissue paper at shs. 35 each.

He paid for the items using three shs. 200 notes. How much balance did he get?

A. shs. 20                      B. shs. 225

C. shs. 580                      D. shs. 375

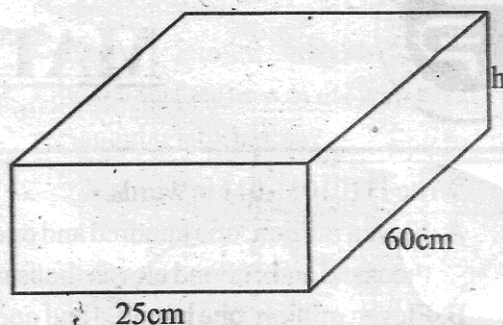
20. In the month of May a salesman sold 1250 copies of newspaper at shs. 40 each. If he was given a commission of 4%, how much was the commission?

A. shs. 4000                      B. shs. 2000

C. shs. 50000                      D. shs. 200000

21. The volume of the tank below is  $75000\text{cm}^3$ .

What is the height of the tank?



A. 50cm                      B. 16cm

C. 14cm                      D. 30cm

22. There are 48 boys and 56 girls in class 7 in Tujenge primary school. What is the ratio of boys to girls in the class?

A. 3:4                      B. 5:4

C. 7:6                      D. 6:7

23. A matatu nissan uses 8 litres of petrol for a journey of 120km. How far will it travel with 5 litres of petrol?

A. 95km                      B. 75km

C. 192km                      D. 60km

24. Wanjala had 4.5 tonnes of sugar. He packed the sugar into bags each weighing 50kg. How many bags were used?

A. 90                      B. 9

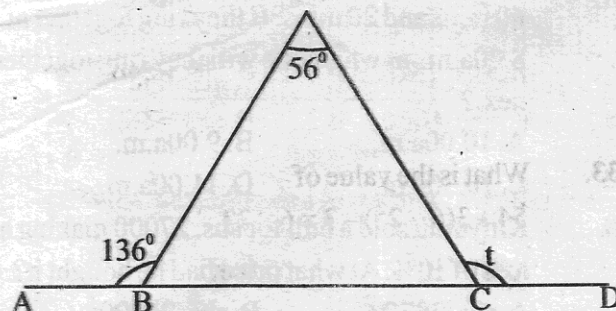
C. 25                      D. 75

25. The marked price of a mobile phone was shs. 2000. Yunis paid shs. 1840 for the phone. What was the percentage discount?

A. 8%                      B. 16%

C. 12%                      D.  $8\frac{16}{23}\%$

26. In the figure below ABCD is a straight line. What is the value of angle t?

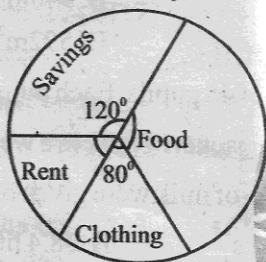


A.  $124^\circ$                       B.  $100^\circ$

C.  $112^\circ$                       D.  $44^\circ$



27. Work out  $\sqrt{676} + 6^2$   
 A. 52                      B. 682  
 C. 60                      D. 62
28. Which one of the following sets of measurements can be used to form a right angled triangle?  
 A. 7cm, 24cm, 26cm  
 B. 6cm, 8cm, 12cm  
 C. 5cm, 12cm, 16cm  
 D. 9cm, 12cm, 15cm
29. A road measures 4.5km and is represented on a map by 9cm. Find the scale used?  
 A. 1:5000                      B. 1:50000  
 C. 1:500000                      D. 1:5000000
30. The pie chart below shows how Chepchumba spent her April salary.



If she spent shs. 4800 on clothing. How much was her salary?

- A. shs. 24600                      B. shs. 36000  
 C. shs. 18000                      D. shs. 21600
31. What is the difference between the LCM and the HCF of 18, 24 and 72?  
 A. 62                      B. 78  
 C. 66                      D. 72
32. Mwangangi bought a coffee table on hire purchase by paying a deposit of shs. 1200 followed by 8 equal monthly instalments of shs. 960 each. How much money did he pay for the table?  
 A. shs. 7680                      B. shs. 6480  
 C. shs. 10560                      D. shs. 8880
33. What is the value of  $54 + 3(6 - 2^2) - 3 \times 6$ ?  
 A. 41                      B. 63  
 C. 51                      D. 55

34. A lorry left Namanga at 6.45p.m. and took 12hrs 40mins to reach Garissa. What time in 24hrs clock system did it reach Garissa?  
 A. 0725h                      B. 0825h  
 C. 2025h                      D. 1925h
35. If  $t=2$ ,  $w=3$  and  $y=4$ , find the value of

$$\frac{t^2w + y}{t + w}$$

- A.  $2\frac{1}{2}$                       B.  $3\frac{1}{5}$   
 C.  $5\frac{3}{5}$                       D.  $5\frac{1}{3}$
36. Mageto deposited shs. 16000 in a bank that paid simple interest at the rate of 8% per annum. At the end of 3 years he withdrew the total amount of interest. How much money did he get?  
 A. shs. 3840                      B. shs. 3480  
 C. shs. 4500                      D. shs. 19840
37. Which one of the following is true about the number of faces and edges of an open cuboid?  
 A. 6 faces and 12 edges.  
 B. 5 faces and 12 edges.  
 C. 5 faces and 8 edges.  
 D. 6 faces and 8 edges.
38. How many prime numbers are there between 20 and 50?  
 A. 15                      B. 8  
 C. 6                      D. 7
39. The mean of five numbers is 39. Four of the numbers are 36, 43, 42 and 36. What is the fifth number?  
 A. 40                      B. 39  
 C. 37                      D. 38
40. Convert 72km/hr into m/s.  
 A. 10m/s                      B. 20m/s  
 C. 25m/s                      D. 15m/s

41. Arrange the following fractions from the largest to the smallest.  $\frac{3}{4}, \frac{5}{6}, \frac{2}{5}, \frac{7}{10}$

- A.  $\frac{2}{5}, \frac{7}{10}, \frac{3}{4}, \frac{5}{6}$       B.  $\frac{7}{10}, \frac{5}{6}, \frac{2}{5}, \frac{3}{4}$   
 C.  $\frac{5}{6}, \frac{2}{5}, \frac{3}{4}, \frac{2}{5}$       D.  $\frac{5}{6}, \frac{3}{4}, \frac{7}{10}, \frac{2}{5}$

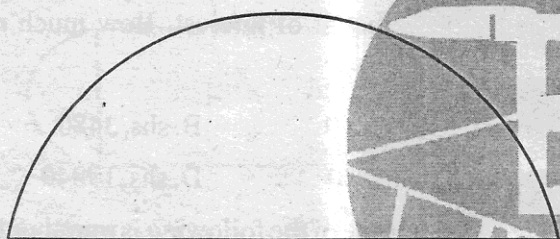
42. What is the value of  $23 \div 7$  correct to 2 decimal places?

- A. 3.285      B. 3.29  
 C. 3.286      D. 32.8

43. Which of the following is not a property of a rectangle?

- A. Has four sides.  
 B. Interior angles sum up to  $360^\circ$ .  
 C. Diagonals are not equal.  
 D. Diagonals are equal.

44. Find the perimeter of the figure below.



- A. 72cm      B. 44cm  
 C. 88cm      D. 116cm

45. Construct triangle RST in which side  $RS = 5.5\text{cm}$ ,  $ST = 7\text{cm}$  and angle  $RST = 70^\circ$ . What is the measure of line RT?

- A. 9cm      B. 6.2cm  
 C. 7.3cm      D. 8.2cm

46. The table below shows the cost of sending letters upto a maximum of 2kg.

Letters	Charges
Not over 50g	14.00
Not over 100g	18.00
Not over 250g	20.00
Not over 500g	25.00
Not over 1kg	32.00
Not over 2kg	40.00

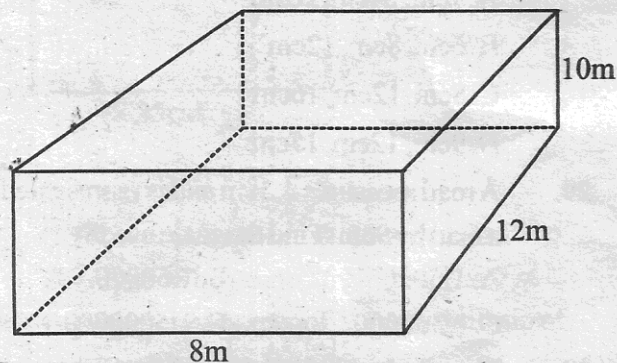
Wanjiku posted 3 letters each weighing 60g, 95g and 605g. How much did she pay at the post office?

- A. shs. 68.00      B. shs. 58.00  
 C. shs. 32.00      D. shs. 63.00

47. Ten carpenters can make 15 chairs in a day. How many chairs will be made by 8 carpenters?

- A: 20      B. 12  
 C. 18      D. 16

48. Find the surface area of the walls of an open rectangular tank below?

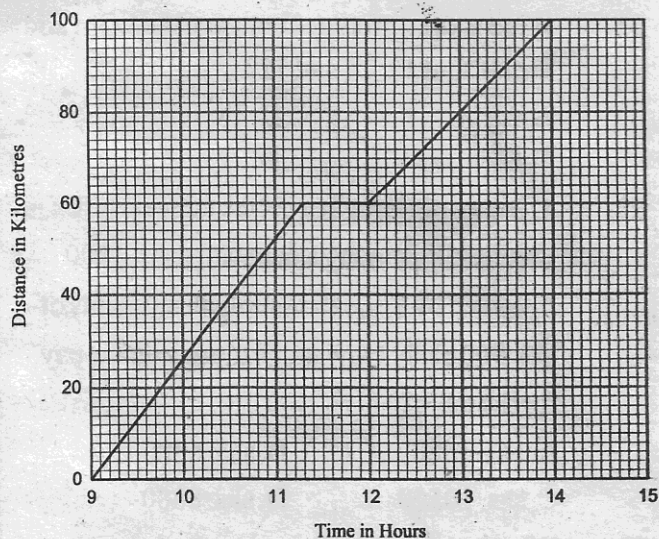


- A.  $496\text{m}^2$       B.  $340\text{m}^2$   
 C.  $400\text{m}^2$       D.  $592\text{m}^2$

49. In a class of 48 pupils. Each pupil was given a 2 decilitre packet of milk in a week. How many litres of milk were given out in 4 weeks?

- A. 384 litres      B. 38.4 litres  
 C. 3840 litres      D. 9.6 litres

50. The graph below shows the journey from Mwea to Nyeri by a motorist.



What was the speed of the motorist after resting?

- A. 30km/hr      B. 50km/hr  
 C. 20km/hr      D. 10km/hr