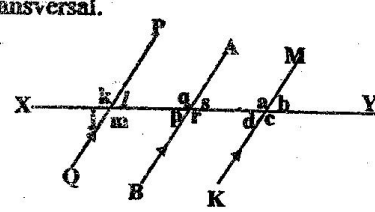


# CLASS 7 END TERM 3 MARCH 2022

## MATHEMATICS

1. Which one of the following is ten million, eleven thousand, one hundred and one in figures?  
 A. 10 011 011      B. 10 110 101  
 C. 10 011 101      D. 10 101 101
2. Round off 7 586 239 to the nearest tens of thousands?  
 A. 7 590 000      B. 7 586 000  
 C. 7 600 000      D. 7 580 000
3. What is the place value of digit 6 in the number 1 679 832?  
 A. Millions.  
 B. Hundreds of thousands.  
 C. Tens of thousands.  
 D. Thousands.
4. The area of a square plot of land is 1 849m<sup>2</sup>. What is the length of one side of the plot?  
 A. 86m              B. 34m  
 C. 132m             D. 43m
5. What is 5.83 476 written correct to three decimal places?  
 A. 5.8348  
 B. 5.834  
 C. 5.835  
 D. 5.83
6. What is the value of x in the equation?  

$$\frac{5(x+8)-4}{4} = 8$$
 A.  $1\frac{3}{5}$   
 B. 4  
 C.  $1\frac{1}{2}$   
 D. 2
7. What is the sum of the total value of digit 5 and digit 4 in the number 2 36 843?  
 A. 50 000            B. 50 040  
 C. 40                 D. 49 960
8. Cheptoo bought the following items from a shop:  
 3 tissues paper @ sh. 30.00.  
 2 bars of soap for sh150.00  
 2 kg of omo @ sh. 125.00  
 4 pieces of Geisha soap @ sh. 80.00  
 She paid for the items using a one thousand shilling note. How much balance was she given?  
 A. Sh. 210.00      B. Sh. 250.00  
 C. Sh. 150.00      D. Sh. 190.00
9. What is the next fraction in the sequence below?  
 $\frac{1}{25}, \frac{1}{49}, \frac{1}{121}, \frac{1}{169}, \dots$   
 A.  $\frac{1}{225}$               B.  $\frac{1}{361}$   
 C.  $\frac{1}{289}$               D.  $\frac{1}{196}$
10. In the diagram drawn below, line PQ is parallel to AB and MK. Line XY is a transversal.  

 Which of the following statements is not true?  
 A. Angle m and p are equal (alternate angles).  
 B. Angle r + angle d = 180° (co- interior angles).  
 C. Angle j is equal to angle p (corresponding angles)  
 D. Angle a is equal to angle c (vertically opposite angles).
11. Simplify the equation below.  

$$\frac{2}{3}(12x + 9y - 15) + \frac{1}{4}(8x - 12y - 20)$$
 A. 10x + 3y - 15  
 B. 10x + 3y - 5  
 C. 10x + 3y + 15  
 D. 10x + 3y + 5

12. The following are properties of a quadrilateral:  
 i) *Opposite angles are equal.*  
 ii) *Each interior angle is a right angle.*  
 iii) *Diagonals are varied and bisect each other at 90°.*  
 iv) *Opposite sides are parallel to one another.*

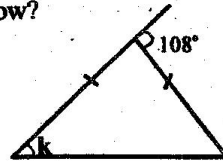
Which of the following are properties of a rhombus?

- A. i, ii, iii                      B. i, iii, iv  
 C. ii, iii, iv                      D. i, ii, iv
13. Gathoni bought  $p$  oranges. Gacheri bought  $2p + 5$  oranges and Gatwiri bought twice the number of oranges of both Gathoni and Gacheri. How many oranges did the three girls buy altogether?  
 A.  $6p + 10$                       B.  $6p + 15$   
 C.  $9p + 15$                       D.  $9p + 10$
14. What is the value of  $3(3a + 2b) + 4(4a - 2b)$  where  $a = 5$  and  $b = 3$ ?  
 A. 119                              B. 128  
 C. 104                              D. 87
15. The longest side of a right angled triangle is 26cm. What are the possible lengths of the two shorter sides?  
 A. 7cm and 24cm    B. 8cm and 12cm  
 C. 10cm and 16cm    D. 10cm and 24cm
16. A lorry carries a load of twenty five bags of sugar each 80kg and forty bags of rice each 25kg. What is the total load carried by the lorry in tonnes?  
 A. 2.5                              B. 3  
 C. 3.5                              D. 4
17. What is  $\frac{7}{25}$  as a decimal?  
 A. 0.0028                      B. 0.028  
 C. 0.28                              D. 2.8
18. Ali and Hassan shared sh. 75 000 in the ratio of 7:8. How much did Hassan receive?  
 A. Sh. 40 000                      B. Sh. 65 625  
 C. Sh. 35 000                      D. Sh. 9 375
19. What is the value of  $\frac{0.128 \times 0.096}{2.4 \times 0.032}$ ?  
 A. 160                              B. 16                              C. 1.6                              D. 0.16

20. Kisali had a string 5 metres long. He cut the string into lengths of 25cm long. How many pieces of strings did he cut?  
 A. 15                              B. 10  
 C. 20                              D. 40

21. The price of a shirt is sh. 750. If the price is increased by 20%, what is the new price?  
 A. Sh. 1 080.00                      B. Sh. 900.00  
 C. Sh. 150.00                      D. Sh. 600.00

22. What is the size of angle  $k$  in the diagram below?

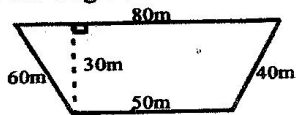


- A.  $54^\circ$                               B.  $72^\circ$   
 C.  $36^\circ$                               D.  $64^\circ$
23. Construct an equilateral triangle whose side is 5cm. Draw a circle that touches the vertices of the triangle. Measure the radius of the triangle.  
 A. 2.5cm                              B. 3.5cm  
 C. 3cm                              D. 5cm
24. A square plot has a length of 0.42m. What is the area of the plot in square metres?  
 A.  $0.01764m^2$                       B.  $0.1764m^2$   
 C.  $1.764m^2$                       D.  $17.64m^2$
25. Decrease sh. 1 200 by 15%.  
 A. Sh.1 020.00                      B. Sh.1 380.00  
 C. Sh.180.00                      D. Sh.1 080.00
26. The radius of a bicycle wheel is 28cm. How many times will it turn to cover a distance of 4.4km?  
 A. 5 000                              B. 2 500  
 C. 8 000                              D. 4 000
27. One side of a square stadium measures 280 metres. Electric light bulbs are fitted at a distance of 20m from each other along the edges of the stadium. How many light bulbs are fitted?  
 A. 14                              B. 60  
 C. 15                              D. 56

28. What is the area of a circle whose circumference is 88m?

- A.  $616\text{m}^2$       B.  $1\,232\text{m}^2$   
 C.  $2\,464\text{m}^2$       D.  $308\text{m}^2$

29. The diagram below shows a trapezium.



Find its area

- A.  $2\,000\text{m}^2$       B.  $1\,950\text{m}^2$   
 C.  $4\,800\text{m}^2$       D.  $2\,400\text{m}^2$

30. The mass of 7 pupils was 43kg, 41kg, 40kg, 43kg, 45kg, 53kg and 43kg. Calculate the sum of the mean and modal mass.

- A. 43kg      B. 44kg  
 C. 87kg      D. 1 892kg

31. Jamlick borrowed sh. 40 000 for a period of 3 years. He was charged simple interest at the rate of 12%. How much interest did he pay?

- A. Sh. 14 400      B. Sh. 4 800  
 C. Sh. 54 400      D. Sh. 4 400

32. Gachagua received sh. 3 000 as a commission on some goods he sold. If the commission was 5% of the value of goods sold, what was the value of goods sold?

- A. Sh. 40 000      B. Sh. 50 000  
 C. Sh. 30 000      D. Sh. 60 000

33. Watwire sold a hen for sh. 540 making a profit of 20%. For how much had he bought the hen?

- A. Sh. 648.00      B. Sh. 450.00  
 C. Sh. 108.00      D. Sh. 432.00

34. Gikaru has a dairy farm of 16 cows. Each of the cow produces 12 litres of milk a day. How many litres of milk did they produce in the month of July?

- A. 5 760l      B. 5 670l  
 C. 5 952l      D. 5 259l

35. A cylindrical container has a diameter of 28cm. If the volume of the container is  $4\,928\text{cm}^3$ , what is the height of the cylinder?

- A. 8cm      B. 6cm  
 C. 12cm      D. 10cm

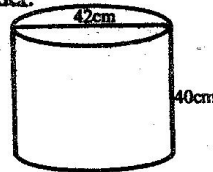
36. A road measuring 4cm on a map has an actual distance of 20 kilometres. What is the scale used in drawing the map?

- A. 1:500      B. 1:5000  
 C. 1:50 000      D. 1:500 000

37. A train arrived at town Q from P at 6:15a.m. If the journey took 9 hours 30min, at what time had the train left town P in 24hour clock system?

- A. 2145hrs      B. 2045hrs  
 C. 09.45hrs      D. 0845hrs

38. The diagram below shows a closed cylinder.



Calculate its surface area.

- A.  $5\,280\text{cm}^2$       B.  $6\,606\text{cm}^2$   
 C.  $8\,052\text{cm}^2$       D.  $2\,772\text{cm}^2$

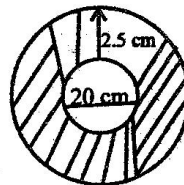
39. The hire purchase price for a gas cooker is sh. 18 500. Naomi paid a deposit of sh. 8 500 and paid the balance in 8 monthly instalments. How much was each instalment?

- A. Sh. 1 250.00      B. Sh. 2 500.00  
 C. Sh. 1 150.00      D. Sh. 1 500.00

40. A hall measures 20 metres long, 8 metres wide and 3.5 metres high. The floor was covered with square tiles of side 25cm. How many tiles are used to cover the floor completely?

- A. 448      B. 526  
 C. 1 120      D. 2 560

41. What is the area of the part shaded in the figure below? (Take  $\pi = 3.14$ )



- A.  $490.625\text{cm}^2$       B.  $314.00\text{cm}^2$   
 C.  $176.625\text{cm}^2$       D.  $88.3125\text{cm}^2$



42. A parallelogram has a base length of 24cm. Its perpendicular height is 8cm. Calculate its area.  
 A.  $96\text{cm}^2$                       B.  $192\text{cm}^2$   
 C.  $384\text{cm}^2$                       D.  $308\text{cm}^2$
43. Which of the following numbers is divisible by 11?  
 A. 11 745                      B. 18 896  
 C. 40 265                      D. 10 857
44. The marked price of a plot of land was sh. 250 000. Muchoki bought it at sh. 230 000. How much was the percentage discount allowed?  
 A. 8%                      B. 20%  
 C. 16%                      D. 25%
45. Which of the following fractions will give a recurring decimals?  
 A.  $\frac{7}{16}$                       B.  $\frac{8}{25}$   
 C.  $\frac{5}{24}$                       D.  $\frac{3}{32}$
46. School enrolment in the year 2018 was 1 500 pupils. In the year 2019, the enrolment increased in the ratio of 6:5. How many pupils in total were enrolled in the year 2019?  
 A. 1 250                      B. 1 800  
 C. 250                      D. 300
47. A farmer sold 18 litres of milk for sh. 540. How many litres would he sell for sh. 720?  
 A. 32                      B. 28  
 C. 6                      D. 24
48. The table below shows the number of people who attended an agricultural show in a certain year.

Male adults	Female adults	Children
354	816	2 168

If each adult paid sh. 200 and each child sh. 50, what was the total amount collected?

- A. Sh. 342 400                      B. Sh. 324 400  
 C. Sh. 234 000                      D. Sh. 108 400

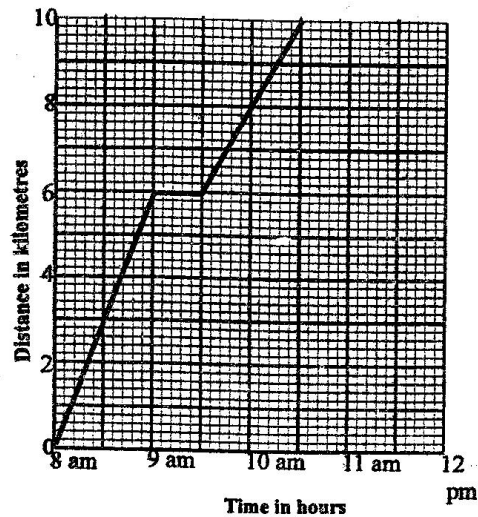
49. The table below shows the number of people who were vaccinated against COVID 19 virus in a certain week recorded in Afya Bora Dispensary

Days of the week	Mon	Tue	Wed	Thur	Fri
No of people	40	70	20	50	60

If the information was represented in a pie-chart, what angle would represent the number of people vaccinated on Tuesday?

- A.  $75^\circ$                       B.  $105^\circ$   
 C.  $90^\circ$                       D.  $60^\circ$

50. The graph below shows Pakuti's walk from home to market one day. He left home at 8:00a.m. After walking for one hour, he met his friend where they talked for 30 minutes then continued with his journey and reached at the market at 10.30a.m



Find Pakuti's average speed for the journey from home to the market.

- A. 2km/hr  
 B. 3km/hr  
 C. 4km/hr  
 D. 5km/hr