

# STD 7 MID TERM 3 EXAM-2019

## MATHEMATICS

1. Which of the following is eight million eighty eight thousand and eighty eight in symbols?
- A. 8 808 808
  - B. 8 088 088
  - C. 8 808 088
  - D. 8 088 808

2. What is the place value of digit 3 in the product of 1 489 and 6?
- A. Thousands.
  - B. Hundreds.
  - C. Tens.
  - D. Ones.

3. In 2008, Maureen harvested 5 239 bags of maize. This was 368 bags more than those she harvested in 2007. How many bags did she harvest in both years?
- A. 4 871
  - B. 10 846
  - C. 10 110
  - D. 9 538

4. What is  $4^2 - 4 \div 2$
- A. 18
  - B. 5
  - C. 3
  - D. 9

5. What is the square root of the number obtained from the sum of  $15^2$  and  $64$ ?
- A. 19
  - B. 23
  - C. 25
  - D. 17

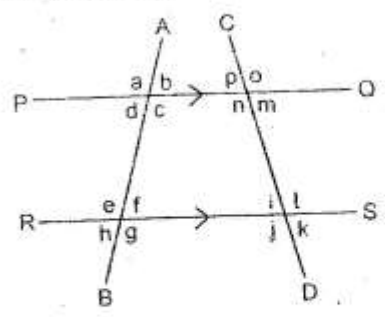
6. What is 6 990 569 rounded off to the nearest thousands?
- A. 6 991 000
  - B. 6 990 600
  - C. 7 000 000
  - D. 6 990 000

7. What is the square root of  $7\frac{16}{49}$ .
- A.  $1\frac{3}{4}$
  - B.  $2\frac{1}{4}$
  - C.  $2\frac{3}{8}$
  - D.  $2\frac{3}{4}$

8. The fractions  $\frac{315}{547}$  and  $\frac{5}{8}$  are to be arranged in an ascending order. Which one of the following is the correct order?
- A.  $\frac{1}{4}, \frac{3}{5}, \frac{5}{7}, \frac{5}{8}$
  - B.  $\frac{5}{7}, \frac{5}{8}, \frac{3}{5}, \frac{1}{4}$
  - C.  $\frac{1}{4}, \frac{3}{5}, \frac{5}{8}, \frac{5}{7}$
  - D.  $\frac{5}{8}, \frac{5}{7}, \frac{1}{4}, \frac{3}{5}$

9. What is the total value of digit 5 in the greatest number formed by digits 3, 8, 5, 7 and 0?
- A. 50
  - B. 50 000
  - C. 5 000
  - D. 500

10. In the figure below line PQ is parallel to RS and lines AB and CD are transversals.



- Which of the following statement is TRUE about the figure?
- A. Angle n and i - co-interior
  - B. Angle m and l - vertically opposite angles.
  - C. Angle g and e - corresponding angles.
  - D. Angle b and f - alternate angles.

11. During Christmas celebration, one blue bulb lights after every 20 seconds, the red bulb after 30 seconds and the green bulb after 45 seconds. After how long will the three bulb light together?
- A. 5 minutes.  
B. 9 minutes.  
C. 2 minutes.  
D. 3 minutes.

12. What is the value of  $3(3a + 2b) - 2(a + b)$  if  $a = 3$   $b = 3$ ?
- A. 46  
B. 33  
C. 21  
D. 63

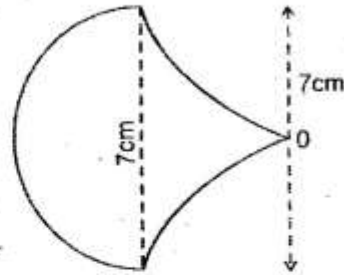
13. The top of a ladder, 17metres long, leans on a vertical wall. The ladder touches the wall at a height of 8 metres. What is the horizontal distance from the bottom of the ladder to the wall?
- A. 12m  
B. 9m  
C. 25m  
D. 15m

14. What is  $\frac{7}{32}$  into a decimal?
- A. 0.31475  
B. 0.51375  
C. 0.21875  
D. 0.12345

15. A rectangular floor board measures 12.5m by 7.5m. How many square tiles of 50cm by 50cm will be needed to cover the floor completely?
- A. 375  
B. 525  
C. 615  
D. 335

16. The price of petrol fuel was sh. 90.00 per litre. After sometime, the price increased by 15%. What is the new price of the fuel?
- A. Sh. 76.50  
B. Sh. 126.25  
C. Sh. 13.00  
D. Sh. 103.50

17. Find the perimeter of the figure below.



- A. 66cm.  
B. 44cm  
C. 22cm  
D. 88cm

18. How are properties of quadrilateral.

*Opposite angles are equal.*

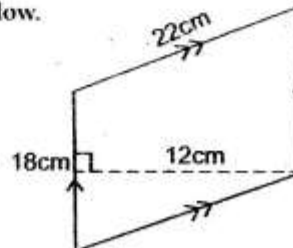
*ii) Diagonals bisect each other at  $90^\circ$  and not equal*

*iii) All sides are equal.*

Which of the following quadrilaterals is being described above?

- A. Parallelogram.  
B. Rectangle.  
C. Rhombus.  
D. Square.

19. Calculate the area of the parallelogram drawn below.



- A.  $216\text{cm}^2$   
B.  $264\text{cm}^2$   
C.  $396\text{cm}^2$   
D.  $424\text{cm}^2$

20. A map is drawn to a scale of 1:20 000. What is the actual distance in kilometres of a road which measures 35 cm on a map?

- A. 700
- B. 0.7
- C. 70
- D. 7

21. Atieno deposited sh. 50 000 in a bank that earned a simple interest at the rate of 8% p.a. How much money was in her account after two years?

- A. Sh. 8 000
- B. Sh. 58 320
- C. Sh. 58 000
- D. Sh. 8 320

22. A rectangular plot of land measure 180m by 150m. What is the area of the plot of land in hectares?

- A. 0.27ha
- B. 2.7ha
- C. 0.027ha
- D. 27ha

23. Kioko bought the following in a shop.

2 - 2kg packets of maize flour @ sh. 115

$2\frac{3}{4}$  kg of sugar at sh. 120.00 per kg.

500ml packet of milk for sh. 60.00

2 bars of soap for sh. 118

If he paid using one thousand shilling note, how much balance did he receive?

- A. Sh 262.00
- B. Sh. 112.00
- C. Sh. 738.00
- D. Sh. 888.00

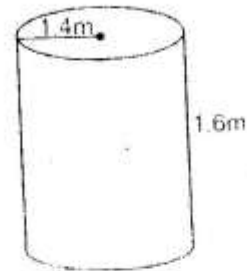
24. Kimani packed 25 cartons each containing 20 bottles of juice. Each bottle of juice contains 500ml. What was the total amount of the juice in litres packed by Kimanzi?

- A. 2 500
- B. 250
- C. 25
- D. 2.5

to be packed in a carton measuring 2.4m by 1.8m by 0.8m. How many boxes were needed to fill the carton?

- A. 180
- B. 1 800
- C. 18 000
- D. 180 000

26. What is the area of the curved surface of the cylinder drawn below?



- A. 28.16m<sup>2</sup>
- B. 14.08m<sup>2</sup>
- C. 8.08m<sup>2</sup>
- D. 6.16m<sup>2</sup>

27. Which one of the following statements is **CORRECT**?

- A.  $\frac{3}{16} > 0.1875$
- B.  $\frac{3}{8} > 0.375$
- C.  $\frac{3}{5} > 0.4$
- D.  $\frac{3}{4} > 0.75$

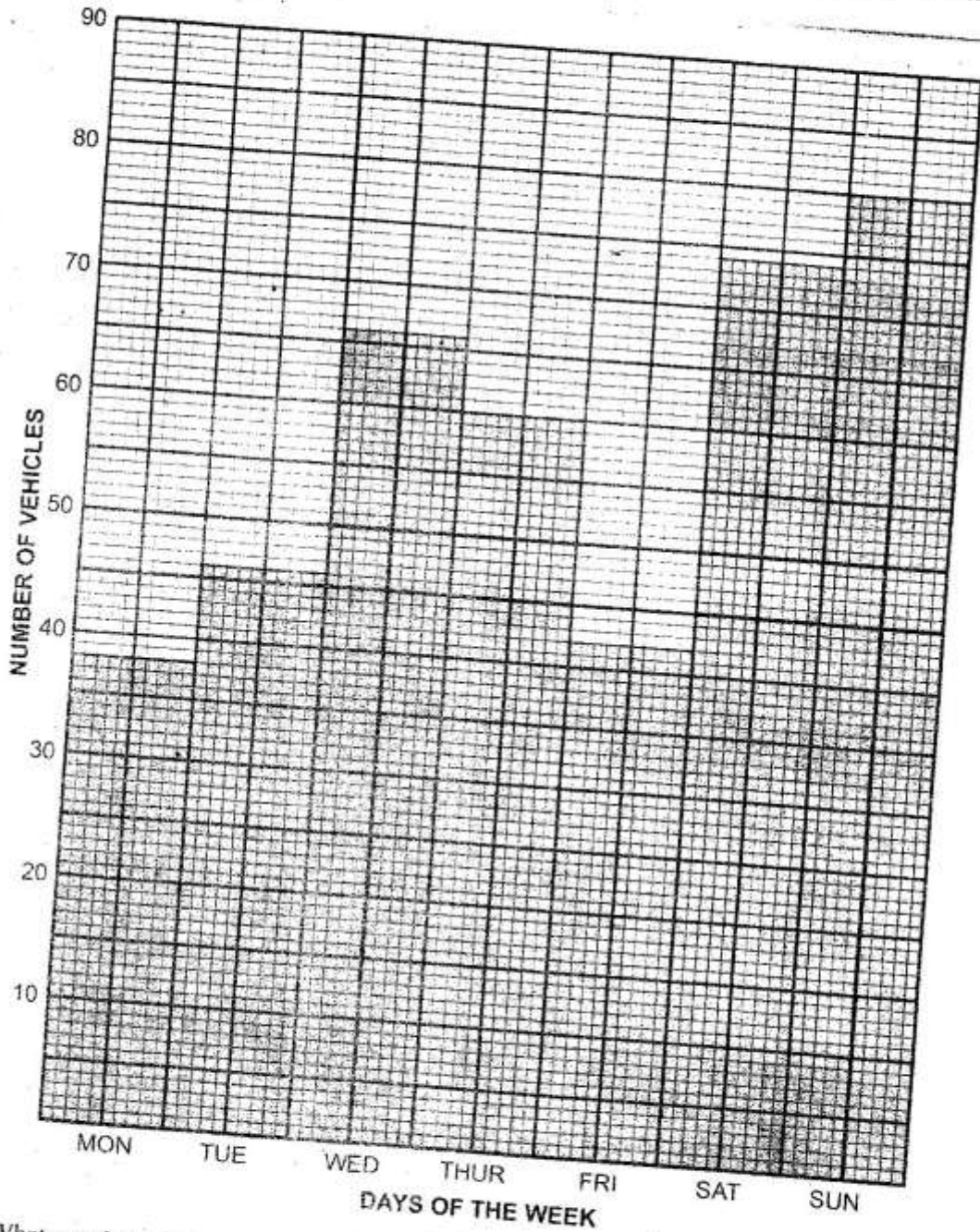
28. The floor is packed in 2.5kg packets. If the weight in the floor is decreased by 20%, what would be the new weight of the packet?

- A. 2kg
- B. 3.0kg
- C. 1.6kg
- D. 2.125kg

29. A shopkeeper spent sh. 3 000 to buy 12 glasses and then sold them making a profit of 20%. For how much did the shopkeeper sold each glass?
- Sh. 275. 00
  - Sh. 300.00
  - Sh. 250.00
  - Sh. 315.00
30. A cylinder has a volume of  $36.96\text{m}^3$ . If the height of the cylinder is 1.5m, what is the diameter?
- 0.7m
  - 1.4m
  - 2.8cm
  - 5.6cm
31. Wanyonyi sold a hen for sh. 280.00 and made a loss of 20%. How much is the loss?
- Sh. 80.00
  - Sh. 70.00
  - Sh. 350.00
  - sh. 224.00
32. The parallel lines of trapezium are 35cm and 24cm respectively. If the area of the figure is  $531\text{cm}^2$ , what is the length of the distance between the parallel lines?
- 9cm
  - 36cm
  - 18cm
  - 24cm
33. The price of an item increased from Sh. 500 to Sh. 600. What was the percentage increase?
- 20%
  - 15%
  - 25%
  - 10%
4. A poultry farmer collected 300 eggs on Monday and 360 eggs on Tuesday. What was the ratio increase?
- 5:6
  - 11:12
  - 6:5
  - 12:10
35. The marked price of a diesel pump is sh. 10 300. Kaniaru bought it on hire purchase price by paying a deposit of sh. 2 500 and 8 monthly instalment each sh. 1 200. How much more than the marked price did he pay?
- Sh. 1 500
  - Sh. 8 100
  - Sh. 2 100
  - Sh. 1 800
36. A rectangular tank measure 45cm by 35cm and 24cm, what is the capacity of the tank in decilitre?
- 3 870
  - 378
  - 37.8
  - 3.78
37. Construct triangle  $TQR$  such that line  $TQ = 4\text{cm}$ ,  $QR = 7.5\text{cm}$  and angle  $TQR$  is a right angle. Draw a circle that touches the vertices of the triangle. Measure the radius of the circle?
- 7.5cm
  - 6.9cm
  - 8.4cm
  - 5.3cm
38. Which of the following numbers is divisible by 11?
- 37 950
  - 58 741
  - 48 990
  - 69 321
39. The marked price of a bag of fertilizer is sh. 1 640.00. Mwangangi bought 8 bags at sh. 11 920. What was the discount per bag?
- Sh. 80.00
  - Sh. 30.00
  - Sh. 240.00
  - Sh. 150.00

40. Tom, Sam and Dick scored goals for their teams during a football match. Tom scored  $m$  goals while Sam scored twice as many goals as Tom. Dick scored 3 goals less than the total goals scored by Tom and Sam. What was their total score?
- A.  $6m + 3$   
 B.  $6m - 3$   
 C.  $6m - 6$   
 D.  $6m + 3$
41. What is the next number in the pattern below.  
 121, 169, 289, 361, \_\_\_\_\_
- A. 625  
 B. 841  
 C. 441  
 D. 529
42. Ruto and Rono shared the profit from the sales of a bull in the ratio of 7:8. If the profit was sh. 22 500, how much did Rono receive?
- A. Sh. 10 500  
 B. Sh. 1 500  
 C. Sh. 12 000  
 D. Sh. 2 500
43. A car consumes seven litres to travel 84km. How many kilometres will it cover if it covers a distance of 108km?
- A. 9litres.  
 B. 15litres.  
 C. 12 litres.  
 D. 5 litres.
44. Four people working at the same rate can dig a flower garden in 12 days. How long will it take if two more people were added?
- A. 9 days.  
 B. 8 days.  
 C. 15 days.  
 D. 20 days.
45. The length of the base of a triangle is  $(3m + 5)$  and its height is 10cm. If the area is  $100\text{cm}^2$ , what is the value of  $m$ ?
- A. 8  
 B. 16  
 C. 12  
 D. 5
46. A meeting started at 11.45am. The meeting took  $2\frac{1}{2}$  hours. At what time did the meeting end in 12hour clock system?
- A. 2.15pm  
 B. 2.15am  
 C. 9.15pm  
 D. 9.15am
47. Maria scored 70 marks, 48mrks, 62marks, 85marks and 65 marks. What was her mean score?
- A. 62  
 B. 68  
 C. 66  
 D. 65
48. What is the sum of edges of a cube measuring 8cm on it's length?
- A. 88  
 B. 96  
 C. 72  
 D. 108
49. What is 5% of  $\frac{1}{4}$  kg
- A. 18.75g  
 B. 1 875g  
 C. 1.875g  
 D. 187.5g

50. The graph below shows the number of vehicles which stopped to fuel at a shell petrol station in a certain week.



What was the average number of vehicles per day fuelled at shell petrol station?

- A. 58
- B. 72
- C. 64
- D. 45