MATHEMATICS

GRADE NINE - 2026

9

NAME:.....

SCHOOL: .....

ASSESSMENT NO..... DATE: .....

SECTION A

1. A county borrowed sh. 954,621,387 to construct a railway line. How many times is the total value of digit 9 greater than the total value of digit 6 in the number?
   A) 180 B) 1500
   C) 1000 D) 10

2. Three bags of rice weighing 90kg, 110kg and 95 kg respectively have to be put in smaller bags of equal mass. What is the greatest mass of each smaller bag obtained?
   A) 18.810 kg B) 5 kg
   C) 11 kg D) 19 kg

3. The temperature of a town was 14.5^0C in the morning. It rises by 3.4^0C at mid-day and drops by 2.7^0C in the evening. What was the temperature of the town in the evening?
   A) 20.6^0C B) 17.9^0C
   C) 15.2^0C D) 13.8^0C

4. Purity worked out a question on indices and got the answer as x^{-1}. Which of the following is equivalent to x^{-1}?
   A) $x^0 \times x^1$ B) $x^4 \div x^3$
   C) $(x^0)^1$ D) $x^2 \div x^3$

5. Mike cut a wooden cube of side 64 cm in small cubes of side 4 cm. How many small cubes did he obtain?
   A) 4096 cubes B) 16 cubes
   C) 64 cubes D) 36 cubes

6. Moses had x cows, the number of cows was not more than 8 but greater than 3. Which of the following inequality represents the number of cows?
   A) $x > 3$ B) $3 < x < 8$
   C) $8 > x < 3$ D) $3 < x \leq 8$

7. Grade nine learners presented the results of two teams in a football league using the matrix:

$$\begin{bmatrix} 3 & 2 \\ 1 & 0 \\ 4 & 5 \end{bmatrix}$$

   What is the order of the matrix?
   A) 2 x 2 B) 2 x 3
   C) 3 x 2 D) 3 x 3

8. The equation of a line was given as $2x + y = 8$. What is the value of y-intercept?
   A) -2 B) 2 C) 8 D) 4

9. The length of the minute hand of a wall clock is 10.5 cm. What is the distance traced by the tip of the minute hand in one hour? (use calculator value for π)
   A) 21 cm B) 65.97 cm
   C) 346.41 cm D) 33 cm

10. A rectangular tank has a square base of 60cm and a height of 40 cm. What is the capacity of the tank in litres?
    A) 2400 L B) 144 L
    C) 144000 L D) 1.44 L

11. A milk company sells yoghurt in cylindrical cups. Each cup has a diameter of 7 cm and a height of 5 cm. The company sold 770 litres of yoghurt. How many cups of yoghurt were sold?
    A) 400 B) 250 C) 1750 D) 4000

12. A solid metallic cube of side 7 cm was melted and then moulded into a sphere. What is the radius of the sphere that was moulded?
    A) 4.3 cm B) 7 cm
    C) 81.9 cm D) 12.5 cm

13. The melting point of a certain metal is 393 Kelvin. Which of the following calculations gives the correct temperature in degrees Celsius?