GRADE 9

MATHEMATICS

SECTION A (20mks)

1. A Grade 9 teacher wrote the following numbers on the board. Five hundred and five million fifty thousand and fifty. Which one of the following correctly represents the number written in symbols?

A. 50050000050 B. 505050050 C. 50050500050 D. 5055000050

2. Work out: 20 - (-10) + 15

A. 45 B. 25 C. 15 D. 5

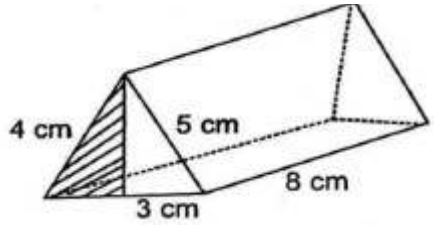
3. What is the next number in the pattern below? 1, 8, 27, 64, 125, _____

A. 189 B. 216 C. 150 D. 250

4. John used a four-figure Mathematical table to find the cube of 1.248. What answer did he get?

A. 1.907 B. 1.557 C. 1.932 D. 1.944

5. The figure below represents a triangular prism. Find its total surface area?



A. 96cm² B. 58cm² C. 108cm² D. 160cm²

6. The volume of a cube is 1000cm³. What is the length of one side of the cube?

A. 1000000cm³ B. 1000cm C. 100cm D. 10cm

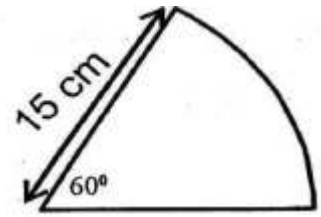
7. Which one of the following shows 625 expressed in index form?

A. 5^4 B. 6^4 C. 25^4 D. 2^4

8. A farmer has sheep, goats and cows in his farm. The animals are in the ratio 2:3:5 respectively. If there are 40 sheep in the farm, what is the total number of animals in the farm?

A. 100 B. 180 C. 200 D. 400

9. The figure below represents a sector of a circle. Find its perimeter (Use π = 3.142)



A. 706.95 B. 45.71 C. 15.71 D. 30.00

10. Jane was told by his Mathematics teacher to find the volume of a cylindrical tank of radius 14m and a height of 20m. (Use π = 22/7)

A. 6160m B. 280m C. 12320m D. 24640m

11. Musau borrowed Ksh. 80000 in a bank that charged compound interest at a rate of 10% per annum for 2 years. How much money in total did he pay back at the end of 2 years?

A. Sh. 96800 B. sh. 96000 C. sh. 16800 D. Sh. 16000

12. Solve for the value of p in the following equation: $5^{2p} \times 5^p = 125$

A. p = 15 B. p = 10 C. p = 6 D. p = 1