

Class 9th Talent Hunt (Syllabus & Sample Questions)

The actual question paper contains 40 questions. The duration of the test paper is 50 minutes.

1. A solution contains 40 ml of ethanol in 100 ml of water. What is the concentration of this solution?

(A) 26.5%
 (B) 27.75%
 (C) 29.6%
 (D) 28.57%

2. Select the isobar from the following.

(A) $^{12}\text{C}_6$ and $^{14}\text{C}_6$
 (B) $^{235}\text{U}_{92}$ and $^{238}\text{U}_{92}$
 (C) $^1\text{H}_1$ and $^2\text{H}_1$
 (D) $^{40}\text{Ar}_{18}$ and $^{40}\text{Ca}_{20}$

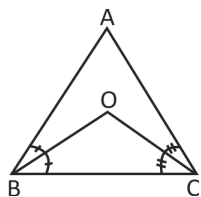
3. When 3 g of carbon is burnt in 8 g of oxygen, 11 g of carbon dioxide is produced. What mass of carbon dioxide will be formed when 3 g of carbon is burnt in 50 g of oxygen?

(A) 48 g (B) 30 g
 (C) 22 g (D) 11 g

4. An object is dropped from some height. It moves through a distance of 24.5 m in last second before touching the ground. Find the height from which it was dropped.

(A) 44.1 m (B) 49 m
 (C) 25 m (D) 28.5 m

5. In the following figure, the bisectors of $\angle B$ and $\angle C$ meet at O. Then $\angle BOC$ is equal to:



(A) $90^\circ + \frac{\angle A}{2}$ (B) $90^\circ + \frac{\angle B}{2}$
 (C) $90^\circ + \frac{\angle C}{2}$ (D) 90°

6. The median of the following frequency distribution is:

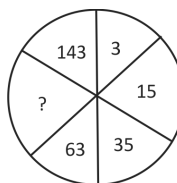
x	10	11	12	13	14	15	16	17	18	19	20
f	5	4	3	2	4	5	3	4	5	3	2

(A) 21 (B) 17 (C) 19 (D) 15

7. There are some tickets numbered as 1, 2, 3 upto 25, one ticket is drawn at random. What is the probability, that the number on the ticket drawn is either a multiple of 3 or 5?

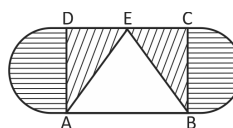
(A) $\frac{11}{25}$ (B) $\frac{12}{25}$
 (C) $\frac{14}{25}$ (D) $\frac{16}{25}$

8. Find the missing number in the following figure.



(A) 56 (B) 99
 (C) 77 (D) 117

9. Find the area of the shaded region in the following figure, if $AB = 24$ cm, $BC = 12$ cm and quadrilateral ABCD is a rectangle.



(A) $72(\pi + 4)$ cm² (B) $108(\pi + 4)$ cm²
 (C) $36(\pi + 4)$ cm² (D) $256(\pi + 4)$ cm²

10. What are the directions of the route given below?



(A) NW, SW, NW (B) SE, NE, SW
 (C) NE, SE, NE (D) SE, NE, SE

Class_9 Talent Hunt Answers

1. (D) 2. (D) 3. (D) 4. (A) 5. (A) 6. (D) 7. (B) 8. (B) 9. (C) 10. (C)