Class – 8 Set – D

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Question1: If the angles of a triangle are in the ratio 2 : 3 : 4, then the difference between the greatest and smallest angles is

- a) 40°
- b) 20°
- c) 10°
- d) 30°

Question2: The consecutive multiples of 3 whose sum is 51 are

- a) 20, 31
- b) 40, 11
- c) 24, 27
- d) 25, 26

Question3: If the digit 1 is placed after a two digit number whose tens digit is 't' and units digit is 'u', the new number is

- a) t + u + 1
- b) none
- c) 10t + u + 1
- d) 100t + 10u + 1

Question4: The quadrilateral formed by joining the mid points of the sides of a quadrilateral PQRS, taken in order, is a rectangle if

- a) PQRS is a rectangle
- b) diagonals of PQRS are perpendicular
- c) PQRS is a parallelogram
- d) diagonals sof PQRS is equal

Question5: If angles P, Q, R and S of the quadrilateral PQRS, taken in order, are in the ratio 3: 7 : 6 : 4 then PQRS is a

- a) parallelogram
- b) rhombus
- c) trapezium

• d) kite

Question6: If PQ and RS are two perpendicular diameters of a circle, then PQRS is a

- a) square
- b) rectangle
- c) trapezium
- d) rhombus but not square

Question7. The sum of the angles in a quadrilateral is equal to _____

(A) 2 right angles(B) 3 right angles(C) 4 right angles(D) 360 right angles

Question8. If the lengths of two diagonals iof a rhombus are 12 cm and 16 cm, then the length of each side of the rhombus is

- (A) 10 cm
- (B) 14 cm
- (C) cannot be determined
- (D) none of these

Question9. If one of the angle measures more than 180° in a quadrilateral, then that is known as

- (A) a parallelogram
- (B) a concave quadrilateral
- (C) a convex quadrilateral
- (D) a trapezium

Question10. A quadrilateral which has exactly one pair of parallel sides is called

- (A) a parallelogram
- (B) a rectangle
- (C) a trapezium
- (D) a kite

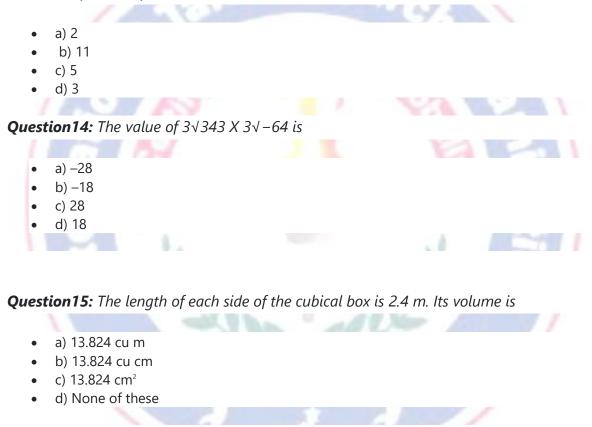
Question11: Which of the following is a Pythagorean triplet?

- a) (3, 4, 7)
- b) (5, 12, 18)
- c) (6, 8, 10)
- d) none of these

Question12: The value of 1 + 3 + 5 + 7 + 9 + + 25 is

- a) 225
- b) 625
- c) 196
- d) 169

Question13: The smaller number by which 396 must be multiplied so that the product becomes a perfect square is



Question16: The cube of a number is 8 times the cube of another number. If the sum of the cubes of numbers is 243, the difference of the numbers is

- a) 3
- b) 6
- C) 4
- d) none

Question17: 8% of Rs.625 is equal to

- a) Rs.60
- b) Rs.50
- c) Rs.75
- d) Rs.100

Question18: 0.9 per cent can be expressed as

- a) 0.09
- b) 0.0009
- c) 0.009
- d) None of these

Question19: A rectangular field has its length and breadth in the ratio 5 : 3. Its area is 3.75 hectares. The cost of fencing it at Rs. 5 per meter is

• a) Rs. 400	
• b) Rs. 500	
• c) Rs. 4000	
• d) Rs. 1000	
Question20: If the altitudw of an Equilateral triangle	is √6 cm, its area is
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Question21: The ratio between the length and the perimeter of a rectangular plot is 1 : 3 and the ratio between the breadth and perimeter of that plot is 1 : 6. What is the ratio between the length and area of that plot?

- a) Data inadequate
- b) 1 : 6
- c) 2 : 1
- d) 1 : 8

Question22: The area of a trapezium is 28 cm² and one of its parallel sides 6 cm. If its altitude is 4 cm then its other parallel side is

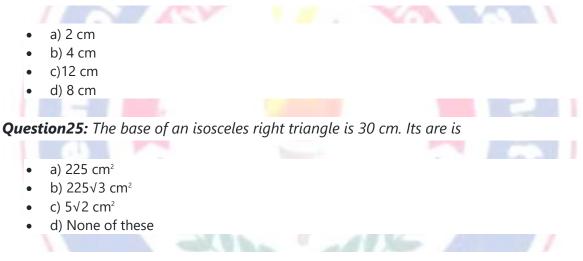
- a) 6 cm
- b) 8cm

- c) 4 cm
- d) none

Question23: The perimeter of a trapezium is 52 cm and its nonparallel sides are each equal to 10 cm and its altitude is 8 cm. Its area is

- a) 124 cm²
- b) 118 cm²
- c) 112 cm²
- d) 128 cm²

Question24: The area of a rhombus is 120 cm² and its altitude is 10 cm. The length of the rhombus is



Question26: One side of an equilateral triangle is 30 cm. Its area is

- a) 225√3 cm²
- b) 112.5 cm²
- c) 225√2 cm²
- d) 225 cm²

Question27: The side of a triangle are 16 cm, 30 cm and 34 cm. Its area is

- a) 272 cm
- b) 120 cm²
- c) 260 cm²
- d) None of these

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- Question28: The value of log24 log15 + log40 is equal to
- a) 6log2
- b) 7log2
- c) 5log2
- d) 8log2

Question29: The value of log105 + log32 - log80 -log21 is

- a) log2
- b) log4
- c) log3
- d) log5

Question30: The value of $logm^n + logm^{n+1} + logm^{1+2n}$ is

- a) 2logm
- b) nlogm
- c) logm
- d) 3log m

Question31: The value of log108 – log54 – log2 is

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- a) 2
- b) 1
- c) 3
- d) 0

Question32: The value of $log3^{1} + log3^{1/2} + log3^{1/4} + log3^{1/8} +$ is equal to

- a) log3
- b) log9
- c) log4
- d) None of these

Question33: One of the factors of $a^{3}(b-c)^{3} + b^{3}(c-a)^{3} + c^{3}(a-b)^{3}$ is

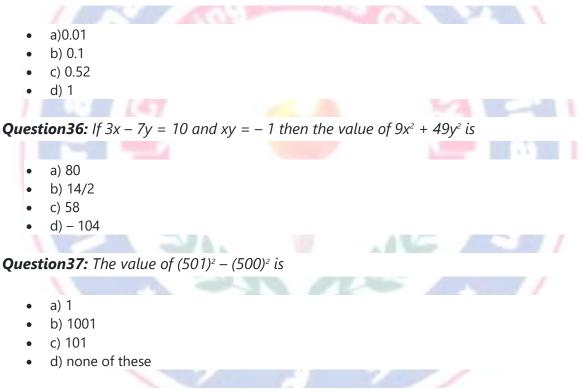
- a) all the above
- b) b c

- c) a b
- d) c a

Question34: One of the factor of $a^3 + 8b^3 - 64c^3 + 24$ abc is

- a) a + 2b + 4c
- b) a + 2b 4c
- c) a 2b + 4c
- d) a 2b 4c

Question35: The value of 0.76 X 0.76 X 0.76 + 0.24 X 0.24 X 0.24 / 0.76 X 0.76 - 0.76 X 0.24 + 0.24 + 0.24 is



Question38: Which of the following is a Pythagorean triplet?

- a) (6, 8, 10)
- b) (5, 12, 18)
- c) (3, 4, 7)
- d) none of these

Question39: The value of 1 + 3 + 5 + 7 + 9 + + 25 is

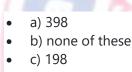
- a) 190
- b) 625
- c) 196
- d) 169

Question40: The smaller number by which 396 must be multiplied so that the product becomes a perfect square is

- a) 1
- b) 2
- c) 11
- d) 3

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Question41: The value of $\sqrt{99} \times \sqrt{396}$ is



• d) 254

Answer: c

Question42: X and Y together can do a peice of work in 8 days, which X alone can do in 12 days. In how many days can Y do the same work alone?

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- a) 24 days
- b) 16 days
- c) 12 days
- d) 36 days

Question43: A man can row at 8 kmph in still water. If the river is running at 2 kmph, it takes him 48 minutes to row to a place and back. How far is the place?

- a) 1km
- b) 3 km
- c) 2 km
- d) 4 km

Question44: If the angles of a triangle are in the ratio 2 : 3 : 4, then the difference between the greatest and smallest angles is

- a) 40°
- b) 20°
- c) 10°
- d) 30°

Question45: The consecutive multiples of 3 whose sum is 51 are

- a) 26,37
- b) 40, 11
- c) 24,27
- d) 25, 26

Answer:

A, 2. C, 3. D, 4. B, 5. C, 6. A, 7. C, 8. A ,9. B, 10. C,
 C, 12. D, 13. B, 14. A, 15. A, 16. C, 17. B, 18. C, 19.
 C, 20. A, 21. A, 22. B, 23. D, 24. C ,25. A ,26. A ,27. D,
 C, 29. A, 30. A ,31. D, 32. C, 33. A, 34. B, 35. D ,36.
 C, 37. B, 38. A, 39. D, 40. C, 41. C, 42. A, 43. B, 44. A,
 45. C