

Q. 1. There are 25 trays on a table in a cafeteria. Each tray contains a cup only, a plate only or both a cup and a plate. If 15 of the trays contain cups and 21 of the trays contain plates, how many trays contain both a cup and a plate ?

- (1) 4 (2) 11 (3) 15 (4) 6

Q. 2. If $\frac{1}{9} + \frac{1}{18} = \frac{1}{\square}$, then the number that replaces the \square to make the equation true is:

- (1) 6 (2) 18 (3) 27 (4) 9

Q. 3. Rahul is writing the numbers, 64, 81, 100, 121, Which of the following numbers would not be in his series of numbers ?

- (1) 169 (2) 176 (3) 225 (4) 289

Q. 4. What is the value of $\{(2 + 3) \times 5\} - (2 + 3 \times 5)$?

- (1) 1 (2) 10 (3) 0 (4) 8

Q.5. Find the value of 'x' in the equation $3x - 7 = 8 - 2x$

- (1) 15 (2) 1 (3) 3 (4) 5

Q. 6. From a point on a circle, how many diameters can be drawn

- (1) 1 (2) 4
(3) Many (4) Infinite

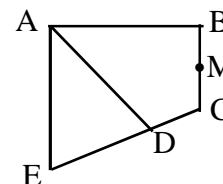


Q. 7. What is the product of the smallest prime number that is greater than 50 and the greatest prime number that is less than 50?

- (1) 2397 (2) 2597 (3) 2491 (4) 2499

Q. 8. By joining which two points of the following figure will you get 4 triangles ?

- (1) AC (2) BD
(3) AM (4) DM



Q. 9. The 17th day of a month is Saturday. The first day of that month was _____.

- (1) Friday (2) Thursday (3) Monday (4) Sunday

Q. 10. A teacher wrote a three digit odd number in her book and dared the class to guess the sum of its digits. She gave the following clues on the board, (a) The hundreds place digit is 8 more than the ones place digit (b) The tens place digit is 4 greater than the ones place digit.

- Can you guess the sum of the digits of the number the teacher wrote in her book
(1) 11 (2) 13 (3) 15 (4) 17

Q. 11. A five digit number 213ab, where 'a' and 'b' are digits, has a remainder less than 10 when divided by 100. The sum of all the digits in the above number is equal to 13. Find the digit 'b'.

- (1) 5 (2) 6 (3) 7 (4) 8

Q. 12. Express 8 hours 45 minutes as decimal fraction:

- (1) 8.45 hrs (2) 8.25hrs (3) 8.045 hrs (4) 8.75 hrs

Q. 13. In the magic square the sum of the numbers horizontally, Vertically and diagonally are the same. If you complete the given magic square, what number would B represent?

B		3
	8	15
	5	A

- (1) 10 (2) 11
(3) 9 (4) 6

Q. 14. Which of the following numbers is divisible by 9?

- (1) 5776 (2) 5446 (3) 6228 (4) 5969

Q. 15. A teacher writes the roll number of a student in her diary to report to the principal about the poor performance of the student in the recent math test. As the students were eager to know the roll number the teacher noted in her diary, the teacher gave them the following clues: (a) It is not a multiple of 3 (b) It is not a perfect square (c) the sum of its digit is a prime number.

Which of the following roll number did the teacher write in her diary?

- (1) 16 (2) 14 (3) 12 (4) 26

Q.16. Of the four square numbers given below, only one square number can be represented as the sum of two prime numbers in two different ways, Find that square number?

- (1) 4 (2) 9 (3) 16 (4) 25

Q. 17. The length of a rectangular mat is 2 feet more than its width. If the length of the mat is 8 feet, what is the area of the mat in square feet?

- (1) 16 (2) 48 (3) 66 (4) 96

Q. 18. If $a = 2b$ and $b = 3$, what is the value of $2a - b$?

- (1) 9 (2) 3 (3) 6 (4) 15

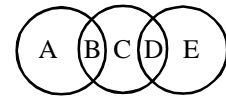
Q. 19. A five- digit number has 9 in the thousands place, 6 in the greatest place-value position, 1 in the tens place, 5 in the least place value position, and 7 in the hundreds place. What is the number?

- (1) 96715 (2) 69175 (3) 67915 (4) 69715

Q. 20. The H.C.F. of 24 and 72 is:

- (1) 6 (2) 12 (3) 24 (4) 72

Q. 21. Use the digits 1 to 5 each once. Replace each letter by one of the digits. Make the total in each circle the same.



What is the total in each of the circle?

- (1) 4 (2) 7 (3) 5 (4) 6

Q. 22. What can be the product of $\clubsuit\clubsuit7 \times \clubsuit9$, where \clubsuit denotes digits not necessarily the same?

- (1) 1593 (2) 3239 (3) 293 (4) 3103

Q. 23. What number can replace the \clubsuit , if $11\frac{\clubsuit}{9} = 12\frac{4}{9}$

- (1) 13 (2) 8 (3) 10 (4) 6

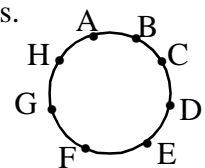
Q. 24. Simplify using BODMAS Rule : $13 - 2 \times 3 + 15 \div 3$

- (1) 36 (2) 12 (3) 10 (4) 1

Q. 25. A man facing north direction turns 135° towards his left. Then he turns 225° towards his right. In what direction is he facing now?

- (1) South-West (2) South-East (3) West (4) North-West

Q. 26. Eight points are drawn on the circumference of a circle as shown besides. How many line segments can be drawn joining any two points?



- (1) 16 (2) 7
(3) 28 (4) 14

Q. 27. Which of the following represents the year 1945 in Roman Numeral?

- (1) IXXLV (2) MCMXLV (3) MCDLXV (4) CMXLV

Q. 28. A wire is bent in the form of a rectangle whose length measures 16 cm and breadth 12 cm. If the same wire is bent in the form of a square, what would be the side of the square?

- (1) 14 cm (2) 28 cm (3) 18 cm (4) 7 cm

Q. 29. A gold ring weighs 5 grams 15 milligrams. How would you represent this weight in decimal as grams?

- (1) 5.0015 gm (2) 5.15 gm (3) 0.515 gm (4) 5.015 gm

Q.30. Insert the proper sign of comparison in the box : $2 + 3 \times 2 \square 2 \times (3 + 2)$

- (1) = (2) > (3) < (4) None of these

Q. 31. The product of three distinct prime numbers is 130. What is the sum of these three prime numbers?

- (1) 130 (2) 27 (3) 18 (4) 20

Q. 32. By how much is 1.3 greater than 0.13 ?

- (1) 10 (2) 1.10 (3) 1.17 (4) 1.13

- Q. 33. At half past six, what is the angle between the hour and the minute hand?
(1) 15° (2) 12° (3) 30° (4) 45°
- Q. 34. $8^2 + 15^2 = x^2$ Find the value of x:
(1) 23 (2) 17 (3) 25 (4) 15
- Q. 35. Which of the following triangles can have the measure of its two angles as 48° and 66°
(1) Equilateral triangle (2) Right angled triangle
(3) Isosceles triangle (4) Obtused angled triangle
- Q. 36. How many two digit numbers are there which are divisible by 4, 6 and 8?
(1) 24 (2) 8 (3) 6 (4) 4
- Q. 37. The length of a rectangle is 2 more than its breadth. If the breadth is 'a + 2' then which of the following represents its perimeter ?
(1) $4a + 4$ (2) $4a + 8$ (3) $4a + 12$ (4) $2a + 12$
- Q. 38. Christofer reads his favourite book "The Famous Five" in 4 hours and 30 minutes. If he reads at a constant rate of 100 pages every 50 minutes, then how many pages does the book have?
(1) 540 (2) 430 (3) 860 (4) 270
- Q. 39. If $a = 2$ and $b = 5$, then the value of the expression $(a + b) \times (b - a) = ?$
(1) 49 (2) 21 (3) 25 (4) 10
- Q. 40. The number $2\clubsuit 1\clubsuit$ is divisible by 11, and the digits at the \clubsuit place are the same. What digit must replace the \clubsuit ?
(1) 6 (2) 5 (3) 8 (4) 7