Q1. The sum of a proper fraction and its reciprocal is 130/63. Find the fraction.
(a) 5/7
(b) 7/9
(c) 6/7
(d) 9/14

Q2. Sum of four consecutive odd numbers is 416. Find the largest number.
(a) 51
(b) 57
(c) 63
(d) 47

Q3. If $\dfrac{-7x}{4} + 5 = x - 6$ **then find the value of 'x'.**
(a) 6
(b) 4
(c) 5
(d) 3

Q4. Kishan and Pooja have total 68 candies. If Kishan has 26 candies more than Pooja, then find the total number of candies Kishan have?
(a) 19
(b) 59
(c) 47
(d) 52

Q5. Triangle ABC as shown in the figure has line XY parallel to the BC and the line BY is the bisector of angle XYC. Which of the following option is correct?
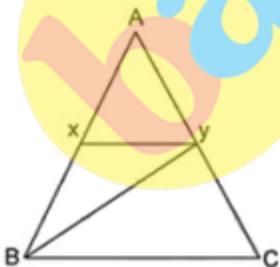
(a) BC=XY
(b) BC=YC
(c) BC=BY
(d) XY=BX

Q6. Analyze the figure shown below in which DE || BC and the other dimensions are as follows: AD=3 cm, BD=4 cm, AE=4.4 cm and DE=6 cm. Calculate the length (in cm) of BC.
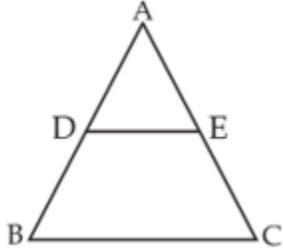
(a) 6
(b) 8
(c) 12
(d) 14

Q7. Two numbers are more than the third number by 21.25% and 36% respectively. First number is what percentage of the second number?
(a) 84.68
(b) 89.15
(c) 85.65
(d)61.25

Q8. If a : b = b : c, then what is the value of $a^4 : v^4$?
(a) a^2 :cb
(b) $a^2 : c^2$
(c) $a^2 b : c^3$
(d) a : c

Q9. R and S started a business by investing Rs 153000 and Rs 195000 respectively for the same period of time. If R's share in the profit earned by them is Rs17000, then what is the total profit (in Rs) earned by both of them together?
(a) 36586.54
(b) 46156.54
(c) 38666.67
(d) 39665.36

Q10. The average of 17 numbers is 69. If four numbers 68, 57, 71 and 85 are removed then what will be the average of remaining numbers?
(a) 68.615
(b) 69.5
(c) 72.5
(d)68.375

Q11. ABCD is a parallelogram. Co-ordinates of A, B and C are (5,0), (-2,3) and (-1,4) respectively. What will be the equation of line AD?
(a) y = 2x – 5
(b) y = x + 5
(c) y = 2x + 5
(d) y = x - 5
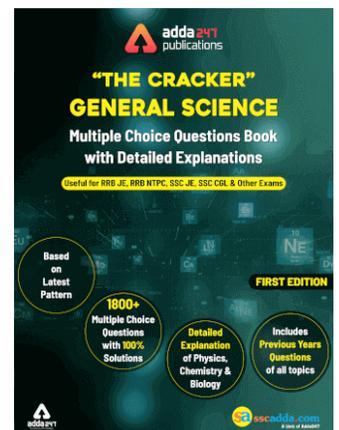
Q12. At what rate of compound interest per annum will a sum of Rs 30000 become Rs 42483 in 2 years?
(a) 23 percent
(b) 19 percent
(c) 16 percent
(d) 13 percent

Q13. A bag has Rs 29.4 in the form of 1 rupee, 50 paise and 10 paise coins in the ratio of 7:5:3. What is the number of 50 paise coins?
(a) 9
(b) 18
(c) 15
(d) 21

Q14. Reflection of the point (-3,6) in the x-axis is
(a) (3,6)
(b) (6,-3)
(c) (-3,-6)
(d) (-6,3)

Q15. The Simplified form of $(bx^3a^2z^5)*(b^5x^2a^4z^6)/(a^5b^3z^9)$ is
(a) $b^2x^4a^6z$
(b) $b^3x^2a^4z^3$
(c) $b^3x^5a\,z^2$
(d) $b^3a^5z^2$

Q16. Two students appeared for an examination. One of them secured 39 marks more than the other and his marks were 52% of the sum of their marks. The marks obtained by them are
(a) 468 and 507
(b) 568 and 507
(c) 538 and 575
(d) 471 and 510

Q17. What least number must be added to 5632, so that the sum obtained is completely divisible by 31?
(a) 10
(b) 12
(c) 15
(d) 13

Q18. If a merchant offers a discount of 12% on the list price, then she makes a loss of 12%. What % profit or % loss will she make if she sells at a discount of 6% of the list price?
(a) 12 percent loss
(b) 6 percent loss
(c) 10.25 percent profit
(d) 20 percent profit

Q19. An angle is smaller than its supplementary by 50°. What is the measure of the angle?
(a) 65°
(b) 15°
(c) 70°
(d) 35°

Q20. A square is inscribed in a circle. If the side of the square is 21 cm, what is the area (in sq.cm) of the circle?
(a) 616 cm^2
(b) 154 cm^2
(c) 693 cm^2
(d) 729 cm^2

Q21. Find the smallest 6 digit number which is exactly divisible by 1331.
(a) 101156
(b) 102576
(c) 101424
(d) 101455

Q22. A number is divided by 76, we get 69 as remainder. On dividing the same number by 19, what will be the remainder?
(a) 9
(b) 7
(c) 11
(d) None of these

Q23. Find the value of $\frac{12\sqrt{2}}{4\sqrt{15}}(\sqrt{3} + \sqrt{15})$.
(a) $\frac{3\sqrt{2}+3\sqrt{10}}{\sqrt{5}}$
(b) $\frac{6\sqrt{2}+3\sqrt{10}}{\sqrt{3}}$
(c) $\frac{36+3\sqrt{15}}{\sqrt{5}}$
(d) $\frac{3\sqrt{6}+3\sqrt{5}}{\sqrt{3}}$

Q24. Find the value of 'x' if $\left(\sqrt[16]{x^{48}}\right) = 2197$.
(a) 17
(b) 13
(c) 23
(d) 29

Q25. If the in radius of the equilateral triangle is 17.53 cm then what is the value of circum radius (in cm) of the triangle?
(a) 25.18
(b) 35.06
(c) 56.12
(d) 36.53