

Dr. M.K.K. ARYA MODEL SCHOOL, Model Town, Panipat

REVISIONAL ASSIGNMENT

CLASS – VIII, SUBJECT - MATHS

1. Find the measure of the four angles of a quadrilateral if they are in the ratio 3:5:7:9.
2. The perimeter of a parallelogram is 150cm. one of its sides is greater than the other by 25cm. find the length of all sides of the parallelogram.
3. If the angles of a quadrilateral are x° , $(2x + 13)^\circ$, $(3x + 10)^\circ$, $(x - 6)^\circ$, Find x .
4. Construct a rectangle ABCD in which AB = 6 cm and BC = 5 cm.
5. Construct a square ABCD of side 4.5 cm.
6. Represent the following distribution of ages (in years) of 35 teachers in a school by means of a histogram.

Age (in years)	25-30	30-35	35-40	40-45	45-50
Number of teachers	12	11	8	1	3

7. The way Mr. Sharma spends his allowance is given below.

Item	percent
Lunch	25%
Hobby	20%
Recreation	40%
Saving	15%
Total	100%

8. The following table shows the number of students in a school playing five different games.

Games	Football	Hockey	Cricket	Tennis	Squash
Number of students	200	175	250	75	50

9. The number of books lent out by a school library each day is shown in the following table.

Day	Mon	Tue	Wed	Thurs	Fri
Number of books lent	10	25	33	16	6

10. A card is drawn from a pack of 100 cards numbered 1 to 100. Find the probability of drawing a number which is a square.
11. A card is chosen at random from an ordinary deck of playing cards. What is the probability that (a) a diamond is chosen (b) a king is chosen (c) a black 4 is chosen (d) a 7 of hearts is chosen
12. A die is tossed once. What is the probability of the number "7" coming up? What is the probability of a number "less than 7" coming up?
13. Show that 1764 is a perfect square. Find the number whose square is 1764.
14. By what least number should 3675 be multiplied to get a perfect square number? Also, find the number whose square is the new number?
15. Find the least number of 4 digits, which is a perfect square.
16. Evaluate $\sqrt{4356}$.
17. Find $\sqrt{98} \times \sqrt{162}$.
18. Evaluate: $\sqrt{10.0489}$.
19. Find the least number which must be subtracted from 2361 to make it a perfect square.
20. Show that 6192 is not a perfect square.
21. Express 64 as the sum of 8 odd natural numbers.
22. Find the least square number which is exactly divisible by each of the numbers 6, 9, 15 and 20.
23. Show that 216 is a perfect cube. Find the number whose cube is 216.
24. What is the smallest number by which 1323 may be multiplied so that the product is a perfect cube?
25. Find the cube root of $\frac{125}{2744}$.
26. Find the value of $\sqrt[3]{3375 \times 729}$

27. $\sqrt[3]{-1728} + \sqrt{324}$
28. Evaluate $\sqrt[3]{\sqrt{0.000729}} + \sqrt[3]{0.008}$
29. What is the smallest number by which 1375 should be divided so that the quotient may be a perfect cube?
30. Find the edge of a cuboidal box whose volume is 13824 cm^3 .
31. What is the cost price of an article which is sold at a loss of 25% for ₹150?
32. Find the discount and the amount actually paid if a shirt having a price tag of ₹600 is sold at 15% discount.
33. The price of a garment has been reduced by 15% in a sale to ₹306. Find its original price.
34. Write the ratio 21 : 25 as percentage.
35. Find each angle of a parallelogram if two consecutive are in the ratio 1:3.
36. The sum of three consecutive multiples of 7 is 777. Find these multiples.
37. The difference between two positive integers is 50 and the ratio of these integers is 1:3. Find these integers.
38. Sum of two numbers is 10. If one exceeds the other by 12, find the numbers.
39. The present age of Sahil's mother is three times the present age of Sahil. After 5 years their ages will add to 66 years. Find their present ages.
40. Solve: $\frac{2}{3}\left(x + \frac{3}{5}\right) = \frac{7}{2}$
41. What number should be subtracted from $\left(\frac{3}{4} + \frac{1}{3} + \frac{2}{5}\right)$ to get $\frac{1}{2}$?
42. What number should be added to $-\frac{4}{7}$ to get $\frac{5}{9}$?
43. Represent $\frac{2}{5}$ and $-\frac{2}{5}$ on the number line.
44. Arrange $-\frac{5}{3}, \frac{3}{4}, \frac{5}{-6}$ in descending order.
45. Find four rational numbers between $\frac{1}{3}$ and $\frac{1}{4}$.
46. $-36) \times \left(-\frac{35}{76}\right) \times \left(\frac{19}{15}\right) \times \left(\frac{3}{-2}\right)^{-1} = \underline{\hspace{2cm}} ?$
47. Arrange and simplify: $\frac{3}{5} + \frac{5}{3} + \left(-\frac{11}{5}\right) + \left(-\frac{2}{3}\right)$
48. Increase 320 by 20%.