

- Express the following ratios in simplest form  
(a) 10 cm to 10 m  
(b) 45 min to 4 hours
- Define ratio and proportion
- Sahil buys eight books for ₹ 72.  
What is the cost of 45 books?
- Arun earns ₹ 3,90,000 per year. Find his earnings for 25 weeks.
- The cost of 18 kg wheat is ₹ 216.  
Find the cost of one quintal wheat.
- Four erasers are purchased for ₹ 10.  
Find the cost of one dozen erasers
- The sides of two squares are in the ratio 5:7. Find the ratio of their areas.
- What percent is one dozen of one score?
- What is the percentage of prime numbers from 1 to 10?
- The monthly salary of Mohan is ₹ 90.  
If his salary increases by 6%, find his new salary.
- The selling price of an article is  $\frac{4}{3}$  of its cost price. Find the profit per cent.

12. The cost price of 10 articles is equal to the selling price of 8, find the profit or loss per cent.

13. Define collinear points.

Simplify

14.  $25 + 14 \div (5 - 3)$

15.  $1562 \times 62 + 1562 \times 38$

16.  $750 \times 17 + 750 \times 38 + 27 \times 750 + 18 \times 750$

17.  $8 \times 25 \times 125 \times 40$

18.  $625 \times 25 \times 20 \times 4$

Solve

19. Find largest 5-digit number which is exactly divisible by 40.

20. Write greatest 6 digit number using three different digits.

21. Complete the series:-

1, 1, 2, 3, 5, 8, 13, 21, 34, \_\_\_\_\_, \_\_\_\_\_

22. Get 100 using four 9's and some symbols like +, -, x, ÷.

23. Define co-prime numbers.

24. Write divisibility test of 11.

25. What is the HCF of two consecutive natural numbers?

26. What is the HCF of two consecutive even numbers

27. Find the LCM of 25, 30 and 40

28. Find HCF of 117 and 221 and then find their LCM.

29. The HCF of two numbers is 16 and product of numbers is 3072.  
Find their LCM

30. LCM of two numbers 160 and 352 is 1760. Find their HCF