

- Find the area of triangle in which base is 25cm and height is given by 14cm.
- A basket contains 350 eggs. If 12% of the eggs are rotten, how many eggs are good enough to be sold?
- The ages of A and B are in ratio 8:3. Six years hence, their ages will be in the ratio 9:4, find their present ages.
- Travelling 900km by rail cost Rs.2520. What would be the fare for journey of 360 km?
- In an examination, 96% of the candidates passed and 50 failed. How many candidates appeared.
- Find the diameter of a circle whose circumference is 68.8m. Also find its area.
- Subtract $(2a - 3b + 4c)$ from the sum of $(a + 3b - 4c)$, $(4a - b + 9c)$ and $(-2b + 3c - a)$
- Express the following ratios in simplest form: a) 8 month : 1 year b) 1 km : 360 m c) 3 days : 30 hours
- Gunpowder contains 75 % of nitre and 10% of sulphur, and rest of it is charcoal. Find the amount of charcoal in 8 kg of gunpowder.
- Find simple interest and amount when a) Principal=Rs.6400, Rate=6 per annum and Time= 2 years
b) Principal=Rs.1500, Rate=12 per annum and Time= 3 years 3 months
- Out of her total monthly income, Mrs. Gupta spends 30% on house rent and 60% of the rest on household expenses. If she saves Rs.6300 per month. What is her total monthly income?
- a) If 3% of x is 9, find the value of x . b) Find the number, whose 13% is 65.
- a) If $a:b = 5:8$ and $b:c = 18:25$, find $a:c$ b) If $a:b = 5:6$ and $b:c = 4:7$, find $a:b:c$
- The extension in an elastic string varies directly as the weight hung on it. If a weight of 150gm produces an extension of 2.8cm, what weight would produce an extension of 19.6cm?
- 36% of the maximum marks is required to pass a test. A student gets 123 marks and is declared fail by 39 marks. Find the maximum marks
- Find the following products: a) $8a^2(2a + 5b)$ b) $2x^2(3x - 4x^2)$ c) $9t^2(t + 7t^3)$ d) $(3x^2 + y^2)(2x^2 + 3y^2)$
- Find the product $-3y(xy + y^2)$ and find its value for $x=4$ and $y=5$
- A copper wire when bent in the form of a square encloses an area of 121cm^2 . If the same wire is bent in the form of a circle, find the area enclosed by it.
- At what rate percent per annum will Rs.4500 amount to Rs.5715 in 3 years.
- Two numbers are in the ratio 7:11. If 7 is added to each of the number, the ratio becomes 2:3. Find the numbers.
- Ram borrowed Rs.6000 from the SBI for 3 yrs and 8 months at 12% p.a. Find the amount to clear the debt
- What must be subtracted from each of the number 23, 40, 57 and 108. So that the remainder are in proportion.
- A sum of money put at 11% p.a. amounts to Rs.4491 in 2 years 3 months. What will be amount to in 3 years at same rate?
- The sides of a triangle are in ratio 13:14:15 and its perimeter is 84cm. Find the area of triangle.
- The following table shows the weight in kg of 15 workers in a factory.

Weight (kg)	60	63	66	72	75
No. of Workers	4	5	3	1	2

Calculate the mean weight.

- Find the area of rhombus in which each side is 12cm and height is 7.5cm.
- The daily wages in Rupees of 15 workers in a factory are given below:
400, 360, 300, 300, 260, 360, 360, 400, 300, 260, 360, 360, 400, 300, 360
Arrange the data in ascending order and prepare the frequency table.
- The area of rectangular field is 3584m^2 and its length is 64m. A boy runs around the field at the rate of 6km/hr. How long will he take to go 5 times around it.
- Find the rate when principal is Rs.8250, SI is Rs.1100 and time is 2 years.
- If $x:y = 3:4$, find: a) $(3x + 4y) : (5x + 3y)$ b) Which ratio is greater :- 4:5 or 16:25