

Subject: Maths

Class/Level: 6-8

Topic: Ratios and Proportions

Levels: Basic, Intermediate, Advanced

Level: Basic

1. Express the ratio of 20 pens to 30 pencils in simplest form: _____
2. In a class, there are 15 boys and 25 girls. Find the ratio of boys to girls: _____
3. Simplify the ratio of ₹50 to ₹150: _____
4. Find the ratio of 2 kg to 800 g (Hint: 1 kg = 1000 g): _____
5. There are 5 ₹ and 10 ₹ symbols. What is the ratio of ₹ to ₹₹ _____
6. Divide ₹200 between Rahul and Rohan in the ratio 1:3: _____
7. Are 2:3 and 4:6 equivalent ratios? (Yes/No): _____
8. A bag has 12 blue balls and 18 red balls. Find the ratio of red balls to total balls: _____
9. Find the missing number: $4:5 = 12:x$. The value of x is _____
10. Compare the ratios 2:3 and 5:6. Which one is larger? _____

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Level: Intermediate

1. The ratio of length to breadth of a park is 5:2. If the breadth is 40 m, find the length: _____
2. Priya and Arjun share 60 ? flowers in the ratio 2:3. How many flowers does Arjun get? _____
3. Two numbers are in the ratio 7:9. If their sum is 160, find the numbers: _____
4. Find the ratio of 30 minutes to 1.5 hours: _____
5. If $x:y = 3:4$ and $y:z = 8:9$, find the combined ratio $x:y:z$: _____
6. A recipe uses 3 cups of flour for every 2 cups of sugar. To use 9 cups of flour, how much sugar is needed?

7. The ratio of copper to zinc in an alloy is 9:5. If the weight of copper is 45 kg, find the weight of zinc:

8. Find the ratio of the area of a square with side 2 cm to a square with side 4 cm: _____
9. Express 75 paise to ?3 as a ratio in its lowest terms: _____
10. In a map, 2 cm represents 50 km. What distance is represented by 10 cm? _____

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1. Three numbers are in the ratio 2:3:5. If the sum of their squares is 152, find the numbers: _____
2. If $(3x + 4y) : (4x + 5y) = 12 : 15$, find the value of the ratio $x:y$: _____
3. The ratio of incomes of A and B is 9:7 and their expenditures are in ratio 4:3. If each saves ₹2000, find their incomes: _____
4. The ratio of interior angles of a triangle is 2:3:4. Find the measure of the largest angle: _____
5. Divide ₹1250 among A, B, and C so that A gets $\frac{2}{9}$ of B's share and C gets $\frac{3}{4}$ of A's share: _____
6. Calculate the ratio of the area of a circle (Area = πr^2) to its circumference ($2\pi r$) if the radius $r = 7$:

7. A mixture contains milk and water in ratio 5:1. On adding 5 liters of water, the ratio becomes 5:2. Find the original quantity of milk: _____
8. If $a^2 + b^2 : a^2 - b^2 = 13 : 5$, find the ratio $a:b$: _____
9. The ratio of the number of sides of two regular polygons is 1:2 and the ratio of their interior angles is 2:3. Find the number of sides: _____
10. A bag contains ₹1, 50p, and 25p coins in the ratio 5:6:8. If the total value is ₹420, find the number of 50p coins: _____