



## Ratio & Proportions

1. **The ratio of the ages of two persons is 5:7. If the sum of their ages is 48 years, what is the age of the younger person?**
- A) 20 years
  - B) 24 years
  - C) 30 years
  - D) 28 years

**Answer:** A) 20 years

2. **In a mixture, the ratio of salt to sugar is 3:4. If there are 21 kg of salt, how much sugar is there?**
- A) 28 kg
  - B) 25 kg
  - C) 24 kg
  - D) 27 kg

**Answer:** A) 28 kg

3. **A recipe requires flour and sugar in the ratio 5:2. If 200 grams of flour is used, how much sugar is needed?**
- A) 80 grams
  - B) 100 grams
  - C) 60 grams
  - D) 50 grams

**Answer:** A) 80 grams

4. **The ratio of the lengths of two rectangles is 7:9. If the length of the smaller rectangle is 35 cm, what is the length of the larger rectangle?**
- A) 45 cm
  - B) 50 cm
  - C) 60 cm
  - D) 55 cm

**Answer:** A) 45 cm

5. **If 4 pens cost \$12, what will be the cost of 10 pens at the same rate?**
- A) \$30
  - B) \$28
  - C) \$25
  - D) \$35

**Answer:** A) \$30



## Mixtures & Allegation

1. **A mixture contains two liquids in the ratio 2:3. If the total volume of the mixture is 50 liters, how many liters of the first liquid are there?**
- A) 20 liters
  - B) 25 liters
  - C) 15 liters
  - D) 30 liters

**Answer:** A) 20 liters

2. **In a solution, the ratio of alcohol to water is 5:2. If the total volume of the solution is 70 liters, how much alcohol is present?**
- A) 50 liters
  - B) 30 liters
  - C) 40 liters
  - D) 35 liters

**Answer:** A) 50 liters

3. **If two solutions of the same volume are mixed in the ratio 3:4, and the first solution contains 20% salt while the second contains 30% salt, what is the percentage of salt in the mixture?**
- A) 25%
  - B) 27%
  - C) 28%
  - D) 26%

**Answer:** B) 27%

4. **A container has a mixture of two liquids in the ratio 5:7. If the quantity of the mixture is 84 liters, how many liters of the second liquid are there?**
- A) 42 liters
  - B) 49 liters
  - C) 45 liters
  - D) 56 liters

**Answer:** D) 49 liters

5. **If a mixture of 30 liters contains 10% alcohol, how much alcohol needs to be added to make it 15% alcohol?**
- A) 5 liters
  - B) 6 liters
  - C) 7 liters
  - D) 8 liters

**Answer:** C) 6 liters



## Partnership

1. **A and B invest \$10,000 and \$15,000 respectively in a business. If the total profit is \$9,000, how much profit will A receive?**
- A) \$3,600
  - B) \$4,000
  - C) \$4,500
  - D) \$5,000

**Answer:** A) \$3,600

2. **Three partners A, B, and C invest in a business in the ratio 2:3:4. If the total profit is \$2,700, how much does C receive?**
- A) \$800
  - B) \$1,000
  - C) \$1,200
  - D) \$1,500

**Answer:** C) \$1,200

3. **If A and B enter into a partnership with investments of \$5,000 and \$7,000 respectively and after a year, A's share of the profit is \$2,000, what is the total profit?**
- A) \$3,500
  - B) \$4,000
  - C) \$4,500
  - D) \$5,000

**Answer:** B) \$4,000

4. **In a partnership, A, B, and C invest in a ratio of 3:4:5. If the total profit is \$12,000, how much profit does B receive?**
- A) \$4,000
  - B) \$4,800
  - C) \$5,000
  - D) \$5,400

**Answer:** B) \$4,800

5. **A and B start a business with investments of \$8,000 and \$12,000 respectively. After a year, B's share of the total profit is \$6,000. What is the total profit?**
- A) \$8,000
  - B) \$9,000
  - C) \$10,000
  - D) \$12,000

**Answer:** D) \$12,000