

Basic Ratio Questions

Multiple Choice Questions

1. What is the simplest form of the ratio 12:16?
 - a) 3:4
 - b) 4:3
 - c) 6:8
 - d) 1:2
2. If there are 18 boys and 12 girls in a class, what is the ratio of boys to girls?
 - a) 3:2
 - b) 2:3
 - c) 6:5
 - d) 4:3
3. Which of the following ratios is equivalent to 2:5?
 - a) 4:10
 - b) 5:2
 - c) 2:7
 - d) 10:3
4. If a recipe calls for 2 cups of flour to every 3 cups of sugar, what is the ratio of flour to sugar?
 - a) 2:3
 - b) 3:2
 - c) 1:2
 - d) 2:5
5. A bag contains 10 red balls and 15 blue balls. What is the ratio of red balls to total balls?
 - a) 2:5
 - b) 2:3
 - c) 1:3
 - d) 1:2

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Fill in the Blank Questions

[Word Bank: 4:5, 1:4, 3:1, 5:4]

1. If there are 8 apples and 32 oranges, the ratio of apples to oranges is _____.
2. In a group of 12 cats and 3 dogs, the ratio of cats to dogs is _____.
3. There are 20 boys and 16 girls in a club. The ratio of boys to girls is _____.
4. If a mixture contains 16 litres of water and 20 litres of juice, the ratio of water to juice is _____.

Short Answer Questions

1. Write the ratio 24:36 in its simplest form.
2. If a football team has 9 forwards and 12 defenders, what is the ratio of defenders to the total number of players?
3. A ribbon is cut into two pieces in the ratio 3:2. If the longer piece is 15 cm, how long is the shorter piece?
4. In a survey, 30 students prefer tea and 45 prefer coffee. What is the ratio of students who prefer tea to those who prefer coffee?

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Answer Key

Multiple Choice Answers:

1. a) 3:4
2. a) 3:2
3. a) 4:10
4. a) 2:3
5. a) 2:5

Fill in the Blank Answers:

1. 1:4
2. 4:1
3. 5:4
4. 4:5

Short Answer Answers:

1. 2:3
2. 12:21 or 4:7 (as total players = $9 + 12 = 21$)
3. 10 cm (since 3 parts = 15 cm, so 1 part = 5 cm, shorter piece = 2 parts = 10 cm)
4. 2:3