

Ratio & Proportion

1. There are 12 apples and 8 oranges in a basket. What is the ratio of apples to oranges?
2. In a class, there are 15 boys and 10 girls. What is the ratio of girls to the total number of students?
3. A recipe uses 4 cups of flour for every 3 cups of sugar. What is the ratio of flour to sugar?
4. You read 60 pages in 3 days. What is the ratio of pages read per day?
5. There are 5 red marbles, 3 green marbles, and 2 blue marbles. What is the ratio of red to total marbles?
6. A car travels 180 miles using 6 gallons of fuel. What is the ratio of miles to gallons?
7. If 2 pencils cost \$1, how much would 10 pencils cost at the same rate?
8. A scale drawing uses a ratio of 1 inch to 5 feet. How many feet are represented by 3 inches?
9. A recipe calls for 2 cups of milk and 3 cups of flour. How many cups of flour are needed if you use 4 cups of milk?
10. The ratio of cats to dogs is 3:5. If there are 15 cats, how many dogs are there?
11. If 4 notebooks cost \$12, how much do 10 notebooks cost?
12. A worker earns \$72 in 6 hours. How much does the worker earn in 10 hours?
13. A 12-ounce can of soda costs \$1.80. What is the cost per ounce?
14. A car travels 240 miles in 4 hours. What is the speed in miles per hour?
15. You can buy 3 bottles of juice for \$6. What is the price of one bottle?
16. A pack of 6 markers costs \$3.60. What is the cost of each marker?
17. 90 questions were answered in 45 minutes. What is the rate per minute?
18. A train travels 150 miles in 2.5 hours. What is its speed?
19. If 5 pens cost \$7.50, what is the cost of 8 pens?
20. A bag of trail mix has peanuts, raisins, and chocolate chips in a ratio of 3:2:1. If there are 18 peanuts, how many raisins and chocolate chips are there?
21. A photo is enlarged with a ratio of 5:2. If the original height is 6 cm, what is the height after enlargement?
22. A mix of juice and water is made in the ratio 4:1. If there are 15 cups of liquid total, how many cups are juice?
23. Two gears turn in a ratio of 3:7. If the smaller gear turns 24 times, how many times does the larger one turn?
24. The scale on a blueprint is 1 inch = 4 feet. If a wall is 7 inches long on the blueprint, how long is it in real life?
25. A survey shows a ratio of 5 happy customers for every 2 unhappy ones. If there are 56 happy customers, how many unhappy ones are there?
26. You make 3 bracelets in 2 hours. How many bracelets can you make in 10 hours?
27. A map scale is 1 inch : 100 miles. How many inches would represent 600 miles?
28. If 8 liters of paint covers 120 sq ft, how many liters are needed to cover 180 sq ft?
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