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Ratio Worksheet-3

- 1) Find the value of m for which the ratios $6:m$ and $18:24$ are equivalent.
- 2) Express each as a ratio in the simplest form.
 - a) 15 balloons out of 60 balloons
 - b) 8 cups out of 36 cups
- 3) 3 parts of lime and 8 parts of soda are mixed to form a lime soda juice. How many parts of lime must be mixed with 11 parts of soda to get the same taste?



- 4) We have 8 planets in a solar system and another solar system has 24 planets. Find a ratio of the number of planets in our solar system to planets in another solar system.
- 5) The ratio of the amount of milk in two containers is 4 to 11. If the first of the containers has 20 gallons, find the amount of milk in the second container?
- 6) In a classroom, there are a total of 60 pieces of furniture of which 20 are tables and the rest are chairs.
 - a) What is the ratio of tables to chairs?
 - b) What is the ratio of total furniture to total chairs?

- 7) A regular hexagon's side is 4 mm and that of a regular pentagon is 16mm. What is the ratio of the length of the side of the hexagon and a pentagon?
- 8) Express 30 minutes to 2 hours in ratio.
- 9) The ratio of potatoes, onions, and capsicum were 2 : 3 : 4 were carried in a truck. If the potatoes weigh 20 pounds, how much does the truckload of vegetables weigh in total?
- 10) A grocery shop sells cookies and chocolates in the ratio of 5 to 7. If the shop sells 35 chocolates, what is the number of cookies sold by the grocery shop?

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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

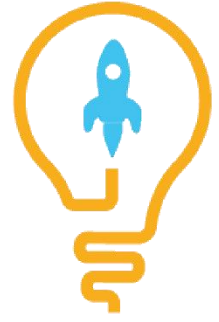
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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**ANSWERS**

1)	$m=8$
2)	a) 1:4 b) 2:9
3)	$88/3$
4)	1:3
5)	55 gallons
6)	a) 1:2 b) 3:2
7)	1:4
8)	1:4
9)	90 pounds
10)	25 cookies

FUN FACT

1. In ratio, the first term is called antecedent and the second term is consequent.
2. 1.618033..... is the golden ratio.
3. Ratio can be used to compare the sizes of two bodies.

