

Multiply a fraction by a whole number

Multiply the numerator by the whole number. Keep the denominator.

1 Study the model.

Worked example



$$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{3} = 2\frac{2}{3}$$

- ① $4 \times \frac{2}{3}$ means 4 groups of $\frac{2}{3}$. Add them, or multiply the numerator: $4 \times 2 = 8$.
- ② Keep the denominator: $\frac{8}{3}$. The parts are still thirds.
- ③ Write it as a mixed number: $8 \div 3 = 2 \text{ R } 2$, so $\frac{8}{3} = 2\frac{2}{3}$.

2 Multiply. Write the fraction, then a mixed or whole number.

1. $5 \times \frac{1}{3} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

2. $2 \times \frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

3. $4 \times \frac{2}{5} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

4. $6 \times \frac{1}{2} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

5. $3 \times \frac{2}{3} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

6. $5 \times \frac{3}{10} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

7. $7 \times \frac{1}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

8. $2 \times \frac{5}{6} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

9. $4 \times \frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

10. $8 \times \frac{2}{3} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

11. $9 \times \frac{1}{6} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

12. $3 \times \frac{5}{8} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$

3 Solve the baking problems.

13. A muffin recipe uses $\frac{3}{4}$ cup of flour. Mateo makes 5 batches. How much flour does he use?

Answer cups

14. Each child drinks $\frac{2}{3}$ cup of milk at snack time. How much milk do 6 children drink?

Answer cups