Simplify $3 : \frac{1}{4}$

To reduce ratios with fractions
Multiply all numbers by the denominator

$$3 \times 4 : \frac{1}{4} \times 4$$

$$12 : 1$$

Simplify $\frac{2}{3} : \frac{4}{5}$

If there are two denominators
Multiply all numbers by the L.C.D.
The Lowest Common Denominator

$$\frac{2}{3} \times 15 : \frac{4}{5} \times 15$$

$$2 \times 5 : 4 \times 3$$

$$10 : 12$$

$$5 : 6$$

Simplify $\frac{2}{3} : \frac{4}{5}$

If there are two denominators
You can also multiply by both denominators
It is advisable to multiply by the largest denominator first

$$\frac{2}{3} \times 5 : \frac{4}{5} \times 5$$

$$\frac{10}{3} : 4$$

$$\frac{10}{3} \times 3 : 4 \times 3$$

$$10 : 12$$

$$5 : 6$$

Express the following ratios in their simplest forms:

1. $5 : \frac{1}{4} =$
2. $2 : \frac{1}{3} =$
3. $\frac{1}{4} : \frac{1}{5} =$
4. $\frac{2}{3} : \frac{1}{3} =$
5. $\frac{1}{4} : \frac{4}{5} =$
6. $\frac{11}{12} : \frac{5}{6} =$
7. $\frac{5}{6} : \frac{6}{7} =$
8. $9 : \frac{4}{3} =$
9. $1\frac{2}{3} : 2\frac{1}{6} =$
10. $\frac{3}{4} : \frac{7}{12} =$
11. $12 : 15 : 9 =$
12. $\frac{5}{8} : \frac{7}{2} =$
13. $4 : \frac{7}{8} =$
14. $\frac{2}{5} : 6 =$
15. $5\frac{1}{2} : 7\frac{1}{2} =$
16. $\frac{1}{3} : \frac{1}{5} =$
17. $1\frac{1}{2} : 3 : 7\frac{1}{2} =$
18. $5 : 3\frac{1}{2} =$
19. $\frac{1}{4} : \frac{1}{6} : \frac{1}{8} =$
20. $4 : 6 : 8 =$

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