

## Common Denominators – 2 Methods Emphasized

**Multiplication Method:** Multiply the denominators if the denominators are relatively prime (no common factors).

**Reducing Method:** Rewrite the denominators as a fraction, reduce, and then cross multiply if the denominators are larger and composite.

**Example:**

Find the common denominator for  $\frac{7}{20}$  and  $\frac{3}{44}$ .

Using the Reducing Method,  $\frac{20}{44} = \frac{5}{11}$ .  $44 \times 5 = 220$ . Therefore,

the common denominator is 220.

Find the common denominators using the Multiplication or Reducing Method.

1.  $\frac{3}{4}, \frac{5}{6}$

2.  $\frac{7}{30}, \frac{1}{45}$

3.  $\frac{3}{22}, \frac{2}{55}$

4.  $\frac{1}{8}, \frac{2}{3}$

5.  $\frac{10}{11}, \frac{4}{5}$

6.  $\frac{8}{27}, \frac{4}{63}$

7.  $\frac{1}{20}, \frac{11}{70}$

8.  $\frac{9}{12}, \frac{7}{40}$

9.  $\frac{2}{5}, \frac{8}{9}$

10.  $\frac{3}{4}, \frac{13}{15}$

11.  $\frac{2}{3}, \frac{6}{7}$

12.  $\frac{4}{21}, \frac{5}{56}$

13.  $\frac{3}{32}, \frac{7}{72}$

14.  $\frac{3}{5}, \frac{1}{2}, \frac{2}{3}$

15.  $\frac{1}{4}, \frac{4}{5}, \frac{3}{4}$

16.  $5/18; 7/24$

17.  $7/18, 11/27$

18.  $11/16, 9/24$

19.  $7/32, 9/48$

20.  $11/24, 7/40$

21.  $7/18, 11/45$