

Finding a Common Denominator: ECD

1 Find the “Easiest Common Denominator” (ECD) for these two fractions:

$$\frac{3}{4} \text{ and } \frac{1}{5} \quad 4 \times 5 = 20$$

so the ECD is 20

2 Find the “Easiest Common Denominator” (ECD) for these two fractions:

$$\frac{5}{6} \text{ and } \frac{2}{3} \quad 6 \times 3 = 18$$

so the ECD is 18

3 Convert these to “like” fractions with the ECD method:

$$\frac{3}{3} \times \frac{1}{4} \text{ and } \frac{2}{3} \times \frac{4}{4}$$

$$\left(\frac{3}{12}\right)$$

$$\left(\frac{8}{12}\right)$$

4 Convert these to “like” fractions with the ECD method:

$$\frac{2}{2} \times \frac{3}{7} \text{ and } \frac{1}{2} \times \frac{7}{7}$$

$$\left(\frac{6}{14}\right)$$

$$\left(\frac{7}{14}\right)$$

5 $\frac{4}{5} + \frac{1}{2}$

$$\frac{2}{2} \times \frac{4}{5} + \frac{1}{2} \times \frac{5}{5}$$

$$\frac{8}{10} + \frac{5}{10} = \left(\frac{13}{10}\right) \text{ or } 1\frac{3}{10}$$

6 $\frac{3}{2} - \frac{5}{9}$

$$\frac{9}{9} \times \frac{3}{2} - \frac{5}{9} \times \frac{2}{2}$$

$$\frac{27}{18} - \frac{10}{18} = \left(\frac{17}{18}\right)$$

7 $\frac{1}{3} + \frac{5}{8}$

$$\frac{8}{8} \times \frac{1}{3} + \frac{5}{8} \times \frac{3}{3}$$

$$\frac{8}{24} + \frac{15}{24} = \left(\frac{23}{24}\right)$$

8 $\frac{7}{8} - \frac{2}{5}$

$$\frac{5}{5} \times \frac{7}{8} - \frac{2}{5} \times \frac{8}{8}$$

$$\frac{35}{40} - \frac{16}{40} = \left(\frac{19}{40}\right)$$

9 $\frac{3}{10} + \frac{4}{8}$

$$\frac{8}{8} \times \frac{3}{10} + \frac{4}{8} \times \frac{10}{10}$$

$$\frac{24}{80} + \frac{40}{80} = \left(\frac{64}{80}\right) \text{ or } \frac{4}{5}$$

10 $\frac{9}{15} - \frac{7}{24}$

$$\frac{24}{24} \times \frac{9}{15} - \frac{7}{24} \times \frac{15}{15}$$

$$\frac{216}{360} - \frac{105}{360} = \left(\frac{111}{360}\right)$$

