**Use benchmarks to estimate each sum.**

Example

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

$$0 \quad + \quad \frac{1}{2} \quad = \quad \frac{1}{2}$$

Common **benchmarks** for estimating fractions are $0, \frac{1}{2},$ and $1$.

41. $\frac{3}{4} \quad + \quad \frac{7}{8}$

$$1 \quad + \quad 1 \quad = \quad 2$$

42. $\frac{11}{12} \quad + \quad \frac{7}{12}$

$$1 \quad + \quad \frac{1}{2} \quad = \quad 1\frac{1}{2}$$

43. $\frac{5}{9} \quad + \quad \frac{5}{12} \quad + \quad \frac{10}{11}$

$$\frac{1}{2} \quad + \quad \frac{1}{2} \quad + \quad 1 \quad = \quad 2$$

44. $\frac{6}{9} \quad + \quad \frac{11}{12} = 1\frac{1}{2}$

$$\frac{1}{2} + 1 = 1\frac{1}{2}$$

45. $\frac{3}{8} \quad + \quad \frac{5}{9} = \frac{1}{2}$ ✓

$$0 + \frac{1}{2} = \frac{1}{2}$$

46. $\frac{1}{2} \quad + \quad \frac{4}{5} \quad + \quad \frac{8}{9} = 3$ ✓

$$1 + 1 + 1 = 3$$

47. $\frac{5}{6} \quad + \quad \frac{6}{7} \quad + \quad \frac{7}{8}$

$$1 + 1 + 1 = 3$$

Estimate each sum by rounding the fractions to $0$, $\frac{1}{2}$, or $1$. Then find the actual sum. Express each sum in simplest form.

9. $\frac{2}{5} + \frac{3}{8} = \frac{1}{2}$   $\frac{1}{2}$ ⓪

$\frac{2}{5} = \frac{1}{2}$

$\frac{3}{8} = 0$

10. $\frac{1}{3} + \frac{1}{10} = 0$   $0+0$

$\frac{1}{3} = 0$

$\frac{1}{10} = 0$

11. $\frac{7}{10} + \frac{3}{4} = 2$   $1+1=2$

$\frac{3}{4} = 1$

$\frac{7}{10} = 1$

12. $\frac{4}{5} + \frac{2}{3} = 2$   $1+1=2$

$\frac{4}{5} = 1$

$\frac{2}{3} = 1$

13. $\frac{7}{8} + \frac{1}{6} = 1$   $1+0$

$\frac{1}{6} = 0$

$\frac{7}{8} = 1$

14. $\frac{6}{7} + \frac{3}{4} = 2$   $1+1=2$

$\frac{6}{7} = 1$

$\frac{3}{4} = 1$