Add. Express each sum in simplest form.

Example

$$\frac{1}{2} + \frac{1}{8} = \frac{4}{8} + \boxed{\frac{1}{8}}$$

$$= \boxed{\frac{5}{8}}$$

21. $\frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \boxed{\frac{2}{4}}$

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

22. $\frac{1}{10} + \frac{1}{5} =$

$\frac{1}{5} + \frac{1}{5} = \frac{2}{16}$

$\frac{1}{10} \frac{2}{10} \frac{3}{10}$

$\frac{1}{10} + \frac{2}{10} = \frac{3}{10}$

23. $\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$

$\frac{2}{3} + \frac{2}{3} = \frac{4}{6}$

$\frac{4}{6}$

$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$

$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{6}{6}$

24. $\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$

$\frac{3}{4} + \frac{3}{4} = \frac{6}{8}$

$\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$

25. $\frac{1}{9} + \frac{2}{3} = \frac{7}{9}$

$\frac{6}{9}$

$\frac{1}{9} + \frac{6}{9} = \frac{7}{9}$

$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{12}$

$\frac{8}{12}$

26. $\frac{1}{4} + \frac{1}{12} = \frac{4}{12}$

$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{12}$

$\frac{3}{12}$

$\frac{3}{12} + \frac{1}{12} = \frac{4}{12}$ ✓ = **reduce**

27. $\frac{2}{3} + \frac{1}{12} = \frac{9}{12}$

$\frac{2}{3} = \frac{8}{12}$

$\frac{8}{12} + \frac{1}{12} = \frac{9}{12}$ ✓ = **reduce**

Add.

Example

$$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \boxed{\frac{3}{12}}$$

$$= \boxed{\frac{7}{12}}$$

31. $\frac{1}{5} + \frac{1}{2} = \frac{2}{10} + \boxed{\frac{1}{10}}$

$$= \boxed{\frac{3}{10}}$$

32. $\frac{\frac{9}{36}}{4} + \frac{1}{9}^{\frac{4}{36}} = \frac{\frac{13}{36}}{36}$

$\frac{1}{9} = \frac{2}{18} = \frac{3}{27} = \frac{4}{36}$

$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20} = \frac{6}{24} = \frac{7}{28} = \frac{8}{32} = \frac{9}{36}$

33. $\frac{8}{56} + \frac{7}{56} = \frac{15}{56}$

$\frac{1}{7} + \frac{1}{8} = \frac{15}{56}$

34. $\frac{\frac{8}{20}}{5} + \frac{\frac{5}{20}}{4} = \frac{13}{20}$

$\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20}$

$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20}$

35. $\frac{16}{40} + \frac{15}{40} = \frac{31}{40}$

$\frac{2}{5} + \frac{3}{8} = \frac{31}{40}$

$\frac{2}{5} \times 8 = \frac{16}{40}$

$\frac{3}{8} \times 5 = \frac{15}{40}$

36. $\frac{\frac{14}{63}}{9} + \frac{\frac{18}{63}}{7} = \frac{32}{63}$

$\frac{2}{9} \times 7 = \frac{14}{63}$

$\frac{2}{7} \times 9 = \frac{18}{63}$

37. $\frac{\frac{9}{33}}{11} + \frac{\frac{22}{33}}{3} = \frac{31}{33}$

$\frac{3}{11} = \frac{6}{22} = \frac{9}{33}$

$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15} = \frac{12}{18} = \frac{14}{21} = \frac{16}{24}$