



## FRACTION ARITHMETIC

### NO CALCULATOR

Ref: G155. **1E2**

#### ADDITION [STAGE TWO]

<p><b>A1</b> Find the missing denominators:</p> $\frac{2}{\square} + \frac{1}{9} = \frac{6}{\square} + \frac{1}{\square}$ $= \frac{7}{9}$	<p><b>A2</b> Find the missing numbers:</p> $\frac{1}{\square} + \frac{\square}{3} = \frac{1}{6} + \frac{\square}{6}$ $= \frac{5}{6}$	<p><b>A3</b> Find the missing numerators:</p> $\frac{4}{9} + \frac{\square}{3} = \frac{4}{9} + \frac{\square}{9}$ $= \frac{\square}{9} = 1\frac{1}{9}$	<p><b>A4</b> Find the missing numbers:</p> $\frac{2}{\square} + \frac{\square}{6} = \frac{4}{6} + \frac{\square}{6}$ $= \frac{\square}{6} = 1\frac{\square}{2}$
<p><b>B1</b> Find the missing numerators:</p> $\frac{\square}{4} + \frac{3}{8} = \frac{\square}{8} + \frac{3}{8}$ $= \frac{\square}{8} = 1\frac{1}{8}$	<p><b>B2</b> Find the missing numerators:</p> $\frac{\square}{8} + \frac{\square}{2} = \frac{\square}{8} + \frac{4}{8}$ $= \frac{\square}{8} = 1\frac{3}{8}$	<p><b>B3</b> Find the missing numbers:</p> $\frac{1}{\square} + \frac{3}{4} = \frac{2}{\square} + \frac{3}{\square}$ $= \frac{\square}{4} = 1\frac{1}{4}$	<p><b>B4</b> Find the missing numbers:</p> $\frac{\square}{8} + \frac{3}{\square} = \frac{\square}{8} + \frac{6}{\square}$ $= \frac{\square}{8} = 1\frac{5}{8}$
<p><b>C1</b> Find the missing numbers:</p> $\frac{\square}{4} + \frac{5}{12} = \frac{\square}{12} + \frac{5}{12}$ $= \frac{14}{12} = 1\frac{1}{\square}$	<p><b>C2</b> Find the missing numbers:</p> $\frac{5}{\square} + \frac{5}{12} = \frac{\square}{12} + \frac{5}{12}$ $= \frac{\square}{12} = 1\frac{1}{4}$	<p><b>C3</b> Find the missing numbers:</p> $\frac{2}{\square} + \frac{4}{15} = \frac{6}{15} + \frac{\square}{15}$ $= \frac{10}{\square} = \frac{\square}{3}$	<p><b>C4</b> Find the missing denominators:</p> $\frac{7}{\square} + \frac{4}{\square} = \frac{7}{\square} + \frac{8}{\square}$ $= \frac{15}{\square} = 1\frac{1}{2}$
<p><b>D1</b> Find the missing numbers:</p> $\frac{1}{3} + \frac{2}{\square} + \frac{5}{6} = \frac{2}{6} + \frac{\square}{6} + \frac{5}{6}$ $= \frac{\square}{6} = 1\frac{5}{6}$	<p><b>D2</b> Find the missing denominators:</p> $\frac{3}{\square} + \frac{7}{\square} + \frac{1}{\square} = \frac{6}{\square} + \frac{7}{\square} + \frac{1}{\square}$ $= \frac{14}{\square} = 1\frac{2}{5}$	<p><b>D3</b> Find the missing numbers:</p> $\frac{5}{\square} + \frac{3}{\square} + \frac{3}{\square} = \frac{5}{8} + \frac{6}{8} + \frac{\square}{8}$ $= \frac{\square}{8} = 2\frac{1}{8}$	<p><b>D4</b> Find the missing denominators:</p> $\frac{1}{\square} + \frac{5}{\square} + \frac{5}{\square} = \frac{4}{\square} + \frac{5}{\square} + \frac{10}{\square}$ $= \frac{19}{\square} = 1\frac{7}{\square}$



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<p><b>A1</b> Find the missing denominators:</p> $\frac{2}{\boxed{3}} + \frac{1}{9} = \frac{6}{\boxed{9}} + \frac{1}{\boxed{9}}$ $= \frac{7}{9}$	<p><b>A2</b> Find the missing numbers:</p> $\frac{1}{\boxed{6}} + \frac{\boxed{2}}{3} = \frac{1}{6} + \frac{\boxed{4}}{6}$ $= \frac{5}{6}$	<p><b>A3</b> Find the missing numerators:</p> $\frac{4}{9} + \frac{\boxed{2}}{3} = \frac{4}{9} + \frac{\boxed{6}}{9}$ $= \frac{10}{9} = 1\frac{1}{9}$	<p><b>A4</b> Find the missing numbers:</p> $\frac{2}{\boxed{3}} + \frac{\boxed{5}}{6} = \frac{4}{6} + \frac{\boxed{5}}{6}$ $= \frac{\boxed{9}}{6} = 1\frac{\boxed{1}}{2}$
<p><b>B1</b> Find the missing numerators:</p> $\frac{\boxed{3}}{4} + \frac{3}{8} = \frac{\boxed{6}}{8} + \frac{3}{8}$ $= \frac{\boxed{9}}{8} = 1\frac{1}{8}$	<p><b>B2</b> Find the missing numerators:</p> $\frac{\boxed{7}}{8} + \frac{\boxed{1}}{2} = \frac{\boxed{7}}{8} + \frac{4}{8}$ $= \frac{11}{8} = 1\frac{3}{8}$	<p><b>B3</b> Find the missing numbers:</p> $\frac{1}{\boxed{2}} + \frac{3}{4} = \frac{2}{\boxed{4}} + \frac{3}{\boxed{4}}$ $= \frac{\boxed{5}}{4} = 1\frac{1}{4}$	<p><b>B4</b> Find the missing numbers:</p> $\frac{\boxed{7}}{8} + \frac{3}{\boxed{4}} = \frac{\boxed{7}}{8} + \frac{6}{\boxed{8}}$ $= \frac{13}{8} = 1\frac{5}{8}$
<p><b>C1</b> Find the missing numbers:</p> $\frac{\boxed{3}}{4} + \frac{5}{12} = \frac{\boxed{9}}{12} + \frac{5}{12}$ $= \frac{14}{12} = 1\frac{1}{\boxed{6}}$	<p><b>C2</b> Find the missing numbers:</p> $\frac{5}{\boxed{6}} + \frac{5}{12} = \frac{10}{12} + \frac{5}{12}$ $= \frac{15}{12} = 1\frac{1}{4}$	<p><b>C3</b> Find the missing numbers:</p> $\frac{2}{\boxed{5}} + \frac{4}{15} = \frac{6}{15} + \frac{\boxed{4}}{15}$ $= \frac{10}{15} = \frac{\boxed{2}}{3}$	<p><b>C4</b> Find the missing denominators:</p> $\frac{7}{\boxed{10}} + \frac{4}{\boxed{5}} = \frac{7}{10} + \frac{8}{10}$ $= \frac{15}{10} = 1\frac{1}{2}$
<p><b>D1</b> Find the missing numbers:</p> $\frac{1}{3} + \frac{2}{\boxed{3}} + \frac{5}{6} = \frac{2}{6} + \frac{\boxed{4}}{6} + \frac{5}{6}$ $= \frac{11}{6} = 1\frac{5}{6}$	<p><b>D2</b> Find the missing denominators:</p> $\frac{3}{\boxed{5}} + \frac{7}{10} + \frac{1}{10} = \frac{6}{10} + \frac{7}{10} + \frac{1}{10}$ $= \frac{14}{10} = 1\frac{2}{5}$	<p><b>D3</b> Find the missing numbers:</p> $\frac{5}{\boxed{8}} + \frac{3}{\boxed{4}} + \frac{3}{\boxed{4}} = \frac{5}{8} + \frac{6}{8} + \frac{\boxed{6}}{8}$ $= \frac{17}{8} = 2\frac{1}{8}$	<p><b>D4</b> Find the missing denominators:</p> $\frac{1}{\boxed{3}} + \frac{5}{12} + \frac{5}{\boxed{6}} = \frac{4}{12} + \frac{5}{12} + \frac{10}{12}$ $= \frac{19}{12} = 1\frac{7}{12}$