



## FRACTION ARITHMETIC

### ADDITION [STAGE FOUR]

## NO CALCULATOR

Ref: G155. **1E4**

<b>A1</b> Find the missing denominators: $\frac{1}{\square} + \frac{5}{\square} = \frac{4}{24} + \frac{15}{24}$ $= \frac{19}{24}$	<b>A2</b> Find the missing denominators: $\frac{1}{\square} + \frac{3}{\square} = \frac{2}{\square} + \frac{15}{\square}$ $= \frac{17}{20}$	<b>A3</b> Find the missing numerators: $\frac{\square}{8} + \frac{\square}{12} = \frac{\square}{24} + \frac{14}{24}$ $= \frac{\square}{24} = 1\frac{5}{24}$	<b>A4</b> Find the missing numbers: $\frac{5}{\square} + \frac{\square}{16} = \frac{10}{16} + \frac{\square}{16}$ $= \frac{\square}{16} = 1\frac{3}{16}$
<b>B1</b> Find the missing denominators: $\frac{7}{\square} + \frac{5}{\square} = \frac{7}{\square} + \frac{10}{\square}$ $= \frac{17}{\square} = 1\frac{5}{\square}$	<b>B2</b> Find the missing numbers: $\frac{\square}{6} + \frac{9}{\square} = \frac{5}{\square} + \frac{27}{\square}$ $= \frac{32}{\square} = 1\frac{1}{15}$	<b>B3</b> Find the missing numbers: $\frac{7}{\square} + \frac{\square}{4} = \frac{14}{20} + \frac{\square}{20}$ $= \frac{\square}{20} = 1\frac{9}{20}$	<b>B4</b> Find the missing numerators: $\frac{\square}{6} + \frac{5}{8} = \frac{\square}{24} + \frac{\square}{24}$ $= \frac{\square}{24} = 1\frac{11}{24}$
<b>C1</b> Find the missing numbers: $\frac{\square}{4} + \frac{11}{\square} = \frac{\square}{28} + \frac{22}{28}$ $= \frac{\square}{28} = 1\frac{15}{28}$	<b>C2</b> Find the missing denominators: $\frac{7}{\square} + \frac{4}{\square} = \frac{21}{\square} + \frac{16}{\square}$ $= \frac{37}{\square} = 1\frac{1}{\square}$	<b>C3</b> Find the missing numerators: $\frac{8}{9} + \frac{\square}{15} = \frac{\square}{45} + \frac{\square}{45}$ $= \frac{\square}{45} = 1\frac{28}{45}$	<b>C4</b> Find the missing denominators: $\frac{13}{\square} + \frac{3}{\square} = \frac{26}{\square} + \frac{9}{\square}$ $= \frac{35}{\square} = 1\frac{1}{6}$
<b>D1</b> Find the missing numbers: $\frac{1}{\square} + \frac{\square}{4} + \frac{\square}{6} = \frac{6}{12} + \frac{\square}{12} + \frac{10}{12}$ $= \frac{\square}{12} = 2\frac{1}{12}$	<b>D2</b> Find the missing numbers: $\frac{\square}{4} + \frac{\square}{5} + \frac{\square}{10} = \frac{5}{\square} + \frac{16}{\square} + \frac{6}{\square}$ $= \frac{27}{\square} = 1\frac{7}{\square}$	<b>D3</b> Find the missing numbers: $\frac{\square}{4} + \frac{\square}{8} + \frac{2}{\square} = \frac{18}{24} + \frac{15}{24} + \frac{\square}{24}$ $= \frac{\square}{24} = 2\frac{1}{24}$	<b>D4</b> Find the missing numbers: $\frac{\square}{10} + \frac{\square}{2} + \frac{3}{\square} = \frac{7}{\square} + \frac{5}{\square} + \frac{6}{\square}$ $= \frac{18}{\square} = 1\frac{4}{5}$



## FRACTION ARITHMETIC

### ADDITION [STAGE FOUR]

### NO CALCULATOR

Ref: G155. **1E4**

<b>A1</b> Find the missing denominators: $\frac{1}{\boxed{6}} + \frac{5}{\boxed{8}} = \frac{4}{24} + \frac{15}{24}$ $= \frac{19}{24}$	<b>A2</b> Find the missing denominators: $\frac{1}{\boxed{10}} + \frac{3}{\boxed{4}} = \frac{2}{20} + \frac{15}{20}$ $= \frac{17}{20}$	<b>A3</b> Find the missing numerators: $\frac{\boxed{5}}{8} + \frac{\boxed{7}}{12} = \frac{15}{24} + \frac{14}{24}$ $= \frac{29}{24} = 1\frac{5}{24}$	<b>A4</b> Find the missing numbers: $\frac{5}{\boxed{8}} + \frac{\boxed{9}}{16} = \frac{10}{16} + \frac{\boxed{9}}{16}$ $= \frac{19}{16} = 1\frac{3}{16}$
<b>B1</b> Find the missing denominators: $\frac{7}{\boxed{12}} + \frac{5}{\boxed{6}} = \frac{7}{12} + \frac{10}{12}$ $= \frac{17}{12} = 1\frac{5}{12}$	<b>B2</b> Find the missing numbers: $\frac{\boxed{1}}{6} + \frac{9}{\boxed{10}} = \frac{5}{30} + \frac{27}{30}$ $= \frac{32}{30} = 1\frac{1}{15}$	<b>B3</b> Find the missing numbers: $\frac{7}{\boxed{10}} + \frac{\boxed{3}}{4} = \frac{14}{20} + \frac{15}{20}$ $= \frac{29}{20} = 1\frac{9}{20}$	<b>B4</b> Find the missing numerators: $\frac{\boxed{5}}{6} + \frac{5}{8} = \frac{20}{24} + \frac{15}{24}$ $= \frac{35}{24} = 1\frac{11}{24}$
<b>C1</b> Find the missing numbers: $\frac{\boxed{3}}{4} + \frac{11}{\boxed{14}} = \frac{21}{28} + \frac{22}{28}$ $= \frac{43}{28} = 1\frac{15}{28}$	<b>C2</b> Find the missing denominators: $\frac{7}{\boxed{12}} + \frac{4}{\boxed{9}} = \frac{21}{36} + \frac{16}{36}$ $= \frac{37}{36} = 1\frac{1}{36}$	<b>C3</b> Find the missing numerators: $\frac{8}{9} + \frac{11}{\boxed{15}} = \frac{40}{45} + \frac{33}{45}$ $= \frac{73}{45} = 1\frac{28}{45}$	<b>C4</b> Find the missing denominators: $\frac{13}{\boxed{15}} + \frac{3}{\boxed{10}} = \frac{26}{30} + \frac{9}{30}$ $= \frac{35}{30} = 1\frac{1}{6}$
<b>D1</b> Find the missing numbers: $\frac{1}{\boxed{2}} + \frac{\boxed{3}}{4} + \frac{\boxed{5}}{6} = \frac{6}{12} + \frac{\boxed{9}}{12} + \frac{10}{12}$ $= \frac{25}{12} = 2\frac{1}{12}$	<b>D2</b> Find the missing numbers: $\frac{\boxed{1}}{4} + \frac{\boxed{4}}{5} + \frac{\boxed{3}}{10} = \frac{5}{20} + \frac{16}{20} + \frac{6}{20}$ $= \frac{27}{20} = 1\frac{7}{20}$	<b>D3</b> Find the missing numbers: $\frac{\boxed{3}}{4} + \frac{\boxed{5}}{8} + \frac{2}{\boxed{3}} = \frac{18}{24} + \frac{15}{24} + \frac{16}{24}$ $= \frac{49}{24} = 2\frac{1}{24}$	<b>D4</b> Find the missing numbers: $\frac{\boxed{7}}{10} + \frac{\boxed{1}}{2} + \frac{3}{\boxed{5}} = \frac{7}{10} + \frac{5}{10} + \frac{6}{10}$ $= \frac{18}{10} = 1\frac{4}{5}$