

Topic 1 - Operations with Fractions

1. Copy and complete the following :-

(a) $\frac{3}{4} + \frac{1}{3}$ $= \frac{9}{12} + \frac{4}{12}$ $= \frac{13}{12} = 1\frac{1}{12}$	(b) $\frac{4}{5} - \frac{2}{3}$ $= \frac{12}{15} - \frac{10}{15}$ $= \frac{2}{15}$	(c) $\frac{7}{8} - \frac{3}{4}$ $= \frac{7}{8} - \frac{6}{8}$ $= \frac{1}{8}$	(d) $\frac{6}{7} + \frac{2}{3}$ $= \frac{18}{21} + \frac{14}{21}$ $= \frac{32}{21} = 1\frac{10}{21}$
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2. Simplify the following :-

(a) $\frac{2}{5} + \frac{1}{3}$	(b) $\frac{1}{2} - \frac{1}{4}$	(c) $\frac{3}{8} + \frac{2}{3}$	(d) $\frac{3}{5} + \frac{1}{4}$
(e) $\frac{5}{6} - \frac{1}{2}$	(f) $\frac{7}{8} - \frac{2}{3}$	(g) $\frac{3}{10} + \frac{4}{5}$	(h) $\frac{5}{9} - \frac{1}{2}$

3. Copy and complete the following :-

(a) $1\frac{1}{2} \times 2\frac{1}{3}$ $= \frac{3}{2} \times \frac{7}{3}$ $= \frac{21}{6}$ $= 3\frac{3}{6} = 3\frac{1}{2}$	(b) $5\frac{2}{3} \times 1\frac{1}{4}$ $= \frac{17}{3} \times \frac{5}{4}$ $= \frac{85}{12}$ $= 7\frac{1}{12}$
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4. Do the following in the same way :-

(a) $2\frac{1}{3} \times 2\frac{1}{2}$	(b) $4\frac{1}{5} \times 2\frac{1}{2}$
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5. Copy and complete the following :-

(a) $2\frac{1}{4} \div 1\frac{1}{5}$ $= \frac{9}{4} \div \frac{6}{5}$ $= \frac{9}{4} \times \frac{5}{6}$ $= \dots = \dots$	(b) $4\frac{2}{3} \div 1\frac{2}{5}$ $= \frac{14}{3} \div \frac{7}{5}$ $= \frac{14}{3} \times \frac{5}{7}$ $= \dots = \dots$
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6. Divide the following fractions in the same way (simplify if possible) :-

(a) $3\frac{1}{3} \div 1\frac{1}{2}$	(b) $2\frac{1}{5} \div 1\frac{1}{2}$
(c) $4\frac{1}{3} \div 2\frac{3}{4}$	(d) $1\frac{2}{7} \div 2\frac{2}{3}$