

“Show that...” – Adding and Subtracting Fractions – Possible Workings

Look at the “Show that” questions below and fill in a minimum of two working rows.

1	Show that $\frac{3}{5} + \frac{1}{4} = \frac{17}{20}$
	Common denominator: $\frac{12}{20} + \frac{5}{20}$
	Add: $\frac{17}{20}$

2	Show that $\frac{3}{8} + \frac{5}{12} = \frac{19}{24}$
	Common denominator: $\frac{36}{96} + \frac{40}{96}$
	Add: $\frac{76}{96}$
	Simplify: $\frac{19}{24}$

3	Show that $\frac{7}{9} - \frac{2}{7} = \frac{31}{63}$
	Common denominator: $\frac{49}{63} - \frac{18}{63}$
	Subtract: $\frac{31}{63}$

4	Show that $\frac{7}{8} + \frac{3}{10} = 1\frac{7}{40}$
	Common denominator: $\frac{70}{80} + \frac{24}{80}$
	Add: $\frac{94}{80}$
	Simplify: $\frac{47}{40} = 1\frac{7}{40}$

5	Show that $1\frac{1}{6} - \frac{3}{4} = \frac{5}{12}$
	Turn to improper: $\frac{7}{6} - \frac{3}{4}$
	Common denominator: $\frac{28}{24} - \frac{18}{24}$
	Subtract: $\frac{10}{24} = \frac{5}{12}$

6	Show that $2\frac{5}{6} - 1\frac{8}{9} = \frac{17}{18}$
	Turn to improper: $\frac{17}{6} - \frac{17}{9}$
	Common denominator: $\frac{153}{54} - \frac{102}{54}$
	Subtract: $\frac{51}{54} = \frac{17}{18}$

7	Show that $2\frac{1}{4} + 1\frac{5}{6} = 4\frac{1}{12}$
	Turn to improper: $\frac{9}{4} + \frac{11}{6}$
	Common denominator: $\frac{54}{24} + \frac{44}{24}$
	Add: $\frac{98}{24} = \frac{49}{12} = 4\frac{1}{12}$

8	Show that $3\frac{3}{8} - 1\frac{5}{6} = 1\frac{13}{24}$
	Turn to improper: $\frac{27}{8} - \frac{11}{6}$
	Common denominator: $\frac{162}{48} - \frac{88}{48}$
	Subtract: $\frac{74}{48} = \frac{37}{24} = 1\frac{13}{24}$