"Show that…" – Multiplying and Dividing Fractions – Possible Workings

Look at the "Show that…" questions below and fill in a minimum of two workings rows.

1	Show that $\frac{3}{4} \times \frac{8}{15} = \frac{2}{5}$
	Multiply: $\frac{24}{60}$
	Simplify: $\frac{2}{5}$

2	Show that $\frac{7}{12} \div \frac{14}{15} = \frac{5}{8}$
	Reciprocal of divisor: $\frac{7}{12} \times \frac{15}{14}$
	Multiply: $\frac{105}{168}$
	Simplify: $\frac{5}{8}$

3	Show that $1\frac{1}{3} \times \frac{5}{8} = \frac{5}{6}$
	Make improper: $\frac{4}{3} \times \frac{5}{8}$
	Multiply: $\frac{20}{24}$
	Simplify: $\frac{5}{6}$

4	Show that $2\frac{2}{3} \div 1\frac{3}{5} = 1\frac{2}{3}$
	Make improper: $\frac{8}{3} \div \frac{8}{5}$
	Reciprocal of divisor: $\frac{8}{3} \times \frac{5}{8}$
	Multiply and simplify: $\frac{40}{24}$
	Simplify: $\frac{5}{3} = 1\frac{2}{3}$

5	Show that $1\frac{5}{9} \times 2\frac{1}{4} = 3\frac{1}{2}$
	Make improper: $\frac{14}{9} \times \frac{9}{4}$
	Multiply: $\frac{126}{36}$
	Simplify: $\frac{7}{2} = 3\frac{1}{2}$

6	Show that $3\frac{3}{10} \div 1\frac{7}{15} = 2\frac{1}{4}$
	Make improper: $\frac{33}{10} \div \frac{22}{15}$
	Reciprocal of divisor: $\frac{33}{10} \times \frac{15}{22}$
	Multiply and simplify: $\frac{495}{220}$
	Simplify: $\frac{9}{4} = 2\frac{1}{4}$