This worksheet has four sections: The Addition, Subtraction, Multiplication and Division of fractions. Each set has six questions split into three difficulties. The difficulty increases where an asterisk, *, is present.

Simplify your answers as much as possible.

Q1.	(c*) (d*)	$\frac{1}{2} + \frac{1}{2}$ $\frac{2}{5} + \frac{1}{5}$ $\frac{1}{3} + \frac{1}{2}$ $\frac{3}{4} + \frac{1}{5}$ $\frac{15}{10} + \frac{3}{5}$ $\frac{2}{7} + \frac{9}{8}$
Q2.	(b) (c*) (d*) (e**)	$\frac{\frac{3}{4} - \frac{1}{4}}{\frac{5}{6} - \frac{1}{6}}$ $\frac{\frac{5}{9} - \frac{1}{2}}{\frac{8}{11} - \frac{1}{3}}$ $\frac{\frac{1}{7} - \frac{8}{9}}{\frac{2}{3} - \frac{7}{12}}$
Q3.	(a)	$\frac{1}{3} \times \frac{1}{3}$

(b)
$$\frac{1}{4} \times \frac{2}{5}$$

(c*) $\frac{11}{10} \times 2$
(d*) $\frac{5}{6} \times \frac{2}{3}$
(e**) $\frac{11}{5} \times \frac{4}{5}$
(f**) $\frac{6}{7} \times \frac{10}{13}$

Q4. (a) $\frac{3}{4} \div \frac{1}{4}$ (b) $\frac{1}{3} \div \frac{1}{4}$ (c*) $\frac{5}{7} \div \frac{5}{6}$ (d*) $\frac{4}{9} \div \frac{2}{3}$ (e**) $\frac{11}{12} \div \frac{10}{9}$ (f**) $\frac{8}{7} \div \frac{20}{9}$

Answers

	(a)	1
	(b)	$\frac{3}{5}$
	(c^*)	$\frac{5}{6}$
	(d*)	$\frac{3}{5}$ $\frac{5}{6}$ $\frac{19}{20}$
	(e**)	$\frac{21}{10}$
	(f**)	$\frac{79}{56}$
Q2.	(a)	$\frac{1}{2}$
	(b)	$\frac{2}{3}$
	(c*)	$ \frac{1}{2} $ $ \frac{2}{3} $ $ \frac{1}{18} $ $ \frac{1}{3} $
	(d^*)	$\frac{1}{3}$
	(e^{**})	$-\frac{47}{63}$
	(f**)	$\frac{1}{12}$
Q3.	(a)	$\frac{1}{9}$
	(b)	$\frac{1}{10}$
	(c^*)	$ \frac{1}{9} $ $ \frac{1}{10} $ $ \frac{22}{10} $

(d*)	$\frac{5}{9}$
(e**)	$\frac{44}{25}$
(f**)	$\frac{60}{91}$

Q4.	(a)	3
	(b)	$\frac{4}{3}$
	(c*)	$\frac{6}{7}$
	(d*)	$\frac{2}{3}$
	(e**)	$\frac{33}{40}$
	(f**)	$\frac{18}{35}$