N5 Maths: Multiplying Fractions



Study this example	$\frac{7}{11} \times 2\frac{4}{9}$	← First, we must always convert any mixed numbers into improper fractions.			
	$= \frac{7}{11} \times \frac{22}{9}$	\leftarrow The whole number times the denominator plus the numerator: 2×9 + 4 = 22.			
	$=\frac{7}{1}\times\frac{2}{9}$	← Always simplify top and bottom <i>before</i> multiplying. In this example, $\frac{22}{11} = \frac{2}{1}$.			
	$=\frac{14}{9}$	\leftarrow Just multiply the numerators and denominators separately.			
	$=1\frac{5}{9}$	\leftarrow The question had a mixed number, so the answer should be in the same style.			

Q1 Simple questions with no mixed numbers. Always simplify before multiplying, if possible.

a)	$\frac{1}{2} \times \frac{3}{4}$	b)	$\frac{2}{7} \times \frac{1}{2}$	c)	$\frac{3}{4} \times \frac{4}{9}$
d)	$\frac{2}{5} \times \frac{3}{4}$	e)	$\frac{1}{6} \times \frac{3}{4}$	f)	$\frac{2}{9} \times \frac{3}{8}$

Q2 These questions involve larger numbers, so take care to simplify fully before multiplying.

a) $\frac{18}{25} \times \frac{10}{27}$ b) $\frac{16}{21} \times \frac{3}{32}$ c) $\frac{72}{121} \times \frac{55}{96}$ d) $\frac{25}{44} \times \frac{132}{175}$ e) $\frac{49}{64} \times \frac{16}{63}$ f) $\frac{48}{49} \times \frac{77}{108}$

Q3 These questions involve mixed numbers. Answers should be given as mixed numbers.

a) $1\frac{1}{2} \times \frac{3}{4}$ b) $\frac{4}{5} \times 1\frac{2}{3}$ c) $2\frac{1}{4} \times \frac{5}{6}$ d) $1\frac{1}{4} \times 2\frac{2}{5}$ e) $2\frac{1}{3} \times 1\frac{3}{7}$ f) $1\frac{3}{5} \times 4\frac{1}{6}$

Q4 Various question types. a) $\frac{3}{8} \times \frac{2}{9}$ b) $\frac{4}{7} >$

a) $\frac{3}{8} \times \frac{2}{9}$ b) $\frac{4}{7} \times 1\frac{5}{9}$ c) $3\frac{1}{2} \times \frac{7}{10}$ d) $5\frac{1}{2} \times 1\frac{2}{3}$ e) $3\frac{1}{5} \times 2\frac{3}{4}$ f) $\frac{42}{55} \times 3\frac{2}{3}$ g) $2\frac{5}{8} \times 2\frac{2}{7}$ h) $5\frac{1}{2} \times \frac{3}{8}$ i) $2\frac{3}{4} \times 3\frac{1}{5}$ j) $2\frac{14}{25} \times 2\frac{11}{32}$ k) $4\frac{4}{9} \times 2\frac{7}{10}$ l) $1\frac{17}{25} \times 1\frac{37}{63}$