Answers to Practice Exercises for Chapter 12 – The Four Rules for Mixed Numbers

Set A - Question 13

Working		Comment
	$1\frac{3}{32} \times 4\frac{3}{5}$	Change to improper fractions.
=	$\frac{35}{32} \times \frac{23}{5}$	Cancel out a common factor of 5.
=	$\frac{\cancel{35}7}{32} \times \frac{23}{\cancel{15}}$	Multiply the numerators, multiply the denominators.
=	$\frac{161}{32}$	Change to a mixed number
=	$5\frac{1}{32}$	

$$\begin{array}{r} 23 \\ \times\ \ 7 \\ \hline 161 \\ {\scriptstyle 2} \end{array}$$

$$\begin{array}{r} 5 \\ 32\overline{)161} \\ 160 \\ \hline 1 \end{array}$$

Note: if you do not cancel out the common factors, you will get $\frac{805}{160}$ which must then be reduced to its lowest terms by dividing out a common factor of 5 to get $\frac{161}{32}$.