

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

Set A - Question 17

Working

$$\begin{aligned} & 10\frac{1}{8} \div 9 \\ = & \frac{81}{8} \div \frac{9}{1} \\ = & \frac{81}{8} \times \frac{1}{9} \\ = & \frac{\cancel{81}^9}{8} \times \frac{1}{\cancel{19}_9} \\ = & \frac{9}{8} \\ = & 1\frac{1}{8} \end{aligned}$$

Comment

Change into improper fractions.

Change $\div \frac{9}{1}$ into $\times \frac{1}{9}$

Cancel out a common factor of 9.

Multiply the numerators, multiply the denominators.

Change to a mixed number

Note: if you do not cancel out the common factors, you will get $\frac{729}{72}$ which must then be reduced to its lowest terms by dividing out a common factor of 9 to get $\frac{9}{8}$.