

Answers to Practice Exercises for Chapter 11 – The Four Rules for Rational Numbers

Set A - Question 13

Working

$$\frac{1}{2} \div \frac{3}{4}$$

$$\frac{1}{2} \times \frac{4}{3}$$

$$= \frac{1}{\cancel{2} 1} \times \frac{\cancel{2} 4}{3}$$

$$= \frac{2}{3}$$

Comment

To divide by $\frac{3}{4}$, multiply by its inverse: $\frac{4}{3}$

Divide out the common factor of 2

Now multiply the numerators, multiply the denominators.

If you don't divide out the common factors before multiplying, you will get $\frac{4}{6}$. Divide out the common factor of 2 to reduce it to its lowest terms: $\frac{2}{3}$