

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

Set A - Question 16

Working

$$\frac{5}{24} \div 10$$

$$\frac{5}{24} \times \frac{1}{10}$$

$$= \frac{\cancel{5} 1}{24} \times \frac{1}{\cancel{2} \cancel{10}}$$

$$= \frac{1}{48}$$

Comment

10 is $\frac{10}{1}$ as a rational number.

To divide by $\frac{10}{1}$, multiply by its inverse: $\frac{1}{10}$

Divide out the common factor of 5

Now multiply the numerators, multiply the denominators.

If you don't divide out the common factors before multiplying, you will get $\frac{5}{240}$. Divide out the common factor of 5 to reduce it to its lowest terms: $\frac{1}{48}$