

Answers to Practice Exercises for Chapter 10 – Rational Numbers

Set A - Question 2a

Note: The object is to divide numerator and denominator by common factors until they can't be made any smaller. The first working shown here goes to the answer in one step using the highest common factor. You may have divided by other common factors and arrived at the answer in more than one step. This is quite correct. These alternative workings are shown here, but you may have taken the steps in a different order. That is also correct.

Dividing by the highest common factor, 4:

$$\frac{12 \div 4}{16 \div 4} = \frac{3}{4}$$

or in two steps, dividing by 2 and then 2 again:

$$\frac{12 \div 2}{16 \div 2} = \frac{6}{8} \quad \text{then} \quad \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$$