

Answers to Practice Exercises for Chapter 13 – Decimals

Set A - Question 1h

Changing the denominator method:

This will not work as there is no multiple of 7 that will give a denominator of 10, 100, 1000 or so on. You have to divide the numerator by the denominator as shown below.

Dividing the numerator by the denominator method:

$$\begin{array}{r} 0.285714285714285714285714285714 \dots \\ 7 \overline{) 2.206040501030206040501030206040501030206040501030 \dots} \end{array}$$

↑

At this point, the sequence of remainders repeats itself.

$$\frac{2}{7} = 0.\dot{2}8571\dot{4} \quad \text{The two dots indicate that this is a recurring decimal.}$$