

Move the Decimal Point

1. Convert 9 L to hectolitres, using the decimal point strategy.

Step 1: *Using the SI Prefix table, write the conversion ratio as an equality, and determine in which direction the decimal moves and how many places it moves.*

$$1 \text{ L} = 0.01 \text{ hL}$$

Move the decimal point 2 places to the left to convert from litres to hectolitres.

Step 2: *Repeat the same decimal movement (direction and number of places) on the measurement given.*

$$9 \text{ L} \rightarrow 0.09 \text{ hL}$$

2. Use the decimal point strategy to convert 3752 dam to millimetres.

Step 1: *Using the SI Prefix table, write the conversion ratio as an equality, and determine in which direction the decimal moves and how many places it moves.*

$$0.1 \text{ dam} = 1\,000 \text{ mm}$$

Step 2: *Repeat the same decimal movement (direction and number of places) on the measurement given.*

Move the decimal 4 places to the right to convert from decametres to millimetres.

$$3752 \text{ dam} = 37\,520\,000 \text{ mm}$$