

Dividing by 10

Remember 23 can be written as 23.0.

We can find $23 \div 10$ like this:

Share the units. 23 shared equally among 10 gives 2 each.

$$\begin{array}{r} 2 \\ 10 \overline{) 23.0} \end{array}$$

This leaves 3 units. Exchange for tenths.

Share the tenths. 30 shared equally among 10 gives 3 each.

So $23 \div 10 = 2.3$

$$\begin{array}{r} 2.3 \\ 10 \overline{) 23.0} \end{array}$$

Copy and complete: (a)

$$\begin{array}{r} 4. \\ 10 \overline{) 47.0} \end{array}$$

(b)

$$\begin{array}{r} \\ 10 \overline{) 56.0} \end{array}$$

(c)

$$\begin{array}{r} \\ 10 \overline{) 91.0} \end{array}$$

(d)

$$\begin{array}{r} \\ 10 \overline{) 68.0} \end{array}$$

Find the answer to these in decimal form:

(a) $28 \div 10$

(b) $32 \div 10$

(c) $65 \div 10$

(d) $74 \div 10$

(e) $99 \div 10$

(f) $103 \div 10$

Look at these divisions by 10:

$$\begin{array}{r} 4.6 \\ 10 \overline{) 46.0} \end{array}$$

$$\begin{array}{r} 7.5 \\ 10 \overline{) 75.0} \end{array}$$

$$\begin{array}{r} 16.4 \\ 10 \overline{) 164.0} \end{array}$$

$$\begin{array}{r} 12.7 \\ 10 \overline{) 127.0} \end{array}$$

This is a quick way to divide by 10:

Move all the digits **one place to the right**.

Notice that the **units** digit becomes the **tenths** digit.

Use the quick way to find:

(a) $12.0 \div 10$ (b) $39.0 \div 10$ (c) $76.0 \div 10$

(d) $143 \div 10$ (e) $109 \div 10$ (f) $265 \div 10$

Find: (a) $\frac{1}{10}$ of 49 (b) $\frac{1}{10}$ of 96 (c) $\frac{1}{10}$ of 105

(d) $\frac{1}{10}$ of 321 (e) $\frac{1}{10}$ of 288

Angus covered a distance of 24 metres in 20 big strides.

What distance did he cover in:

(a) 10 big strides, (b) 1 big stride?

Angus's sister took 100 steps to walk a distance of 50 metres.

What distance did she walk in:

(a) 10 steps, (b) 1 step?

