

You need to go from real
life size to scale size

12,742 km = diameter
of
Earth



10 mm = Scale diameter
of Earth

You need to find a
conversion factor

Conversion Factor

$$\text{Real life} \times \boxed{?} = \text{scale size}$$

Just algebra

Conversion Factor

$$\text{Real life} \times \boxed{?} = \text{scale size}$$

just algebra 1

How could we possibly solve this?

$$12,742 \text{ km} \times ? = 10 \text{ mm}$$

Oh, like that!

$$12,742 \text{ km} \times ? = 10 \text{ mm}$$

$$? =$$

Yay calculators!

$$12,742 \text{ km} \times ? = 10 \text{ mm}$$

$$? = \frac{10}{12,742}$$

Yay calculators!

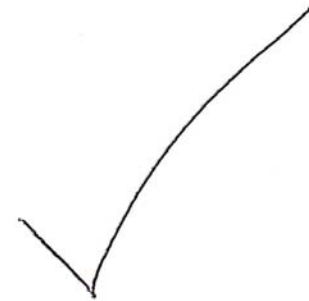
$$12,742 \text{ km} \times ? = 10 \text{ mm}$$

$$? = \frac{10}{12,742}$$

$$? = 0.0007848$$

Check to see if it works

$$12,742 \times 0.0007848 = 10$$



Well that
was easy!

your conversion factor

0.0007846