

## Worked Examples

1. Find the area of a room with dimensions 10 m by 12.62 m.

$$10 \times 12.62$$

$$12.62$$

$$126.2 \text{ sq. m}$$

2. If the car gets 12.6 miles per gallon, how far can it go on 100 gallons?

$$12.6 \times 100$$

$$12.60$$

you need  
to add  
a zero

$$1260 \text{ miles}$$

To multiply by 10, 100, 1000, etc. move the decimal point to the right (to make it \*bigger\*). To divide move to the left (to make it smaller). Move one place for each zero.

3. If you want to save \$2400 over 10 months, how much do you need to save each month?

$$2400 \div 10$$

$$240.$$

$$\$ 240 \text{ per month}$$

In effect, you remove  
one zero.

4. To convert meters to kilometers one needs to divide by 1000. Convert 2,304.8 m to km.

$$2304.8 \div 1000$$

$$2.304.8$$

$$2304.8 \text{ m} = 2.3048 \text{ km}$$