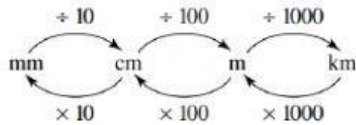


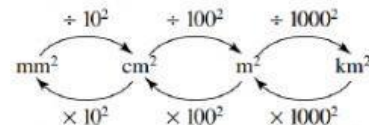
# Converting metric units of area

The diagrams below show the rules for conversion of units for length and area

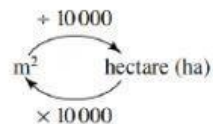
## Conversions of units of length



## Conversions for units of area



Note: 1 hectare (ha) = 10 000 m<sup>2</sup>



Example: convert 25 000 000 cm<sup>2</sup> into km<sup>2</sup>

Using the diagram for conversions for units of area, note that to convert from cm<sup>2</sup> to km<sup>2</sup> we first need to divide by 100<sup>2</sup> and then by 1000<sup>2</sup>.

So:  $25\,000\,000 \div 100^2 \div 1000^2 =$   
 $25\,000\,000 \div 10\,000 \div 1\,000\,000 =$   
 $25\,000\,000 \div 10\,000\,000\,000 = 0.0025 \text{ km}^2$  (we moved the decimal point 10 places to the left)

Convert the following:

- |                            |                 |                             |                 |
|----------------------------|-----------------|-----------------------------|-----------------|
| a. 7 cm <sup>2</sup> =     | mm <sup>2</sup> | j. 0.003 m <sup>2</sup> =   | cm <sup>2</sup> |
| b. 2.5 m <sup>2</sup> =    | cm <sup>2</sup> | k. 5 km <sup>2</sup> =      | m <sup>2</sup>  |
| c. 2.4 m <sup>2</sup> =    | mm <sup>2</sup> | l. 800 mm <sup>2</sup> =    | dm <sup>2</sup> |
| d. 1.8 dm <sup>2</sup> =   | mm <sup>2</sup> | m. 0.09 m <sup>2</sup> =    | mm <sup>2</sup> |
| e. 9000 mm <sup>2</sup> =  | cm <sup>2</sup> | n. 800 000 m <sup>2</sup> = | hm <sup>2</sup> |
| f. 90 cm <sup>2</sup> =    | m <sup>2</sup>  | o. 400 000 m <sup>2</sup> = | km <sup>2</sup> |
| g. 17000 cm <sup>2</sup> = | dm <sup>2</sup> | p. 40 hm <sup>2</sup> =     | m <sup>2</sup>  |
| h. 4000 dm <sup>2</sup> =  | m <sup>2</sup>  | q. 0.7 km <sup>2</sup> =    | m <sup>2</sup>  |
| i. 26 cm <sup>2</sup> =    | m <sup>2</sup>  | r. 8 ha =                   | km <sup>2</sup> |