

1. Write the following measurement units in full:

mm \_\_\_\_\_

cm \_\_\_\_\_

m \_\_\_\_\_

km \_\_\_\_\_

2. What would be an appropriate unit of measurement for the length of:

A pencil

A dining table

A fingernail

A classroom

A sewing needle

A football field

3. Why do we need standard units for measurement, like the metre?

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4. Convert the following length measurements:

140mm to cm

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250cm to mm

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4200cm to m

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5m to cm

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30km to m

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3500m to km

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Extra: Using a map of NSW, find the distance from Sydney to Port Macquarie.  
Write how you calculated it.

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## Answers

1. millimetres, centimetres, metres, kilometres
2. appropriate units  
A pencil cm  
A dining table cm or m  
A fingernail mm or cm  
A classroom m  
A sewing needle mm or cm  
A football field m
3. We need standard units so everyone knows exactly what measurement we are talking about. If we measured length of the desk for example with a pencil, it could be any pencil. It makes for accuracy, consistency and certainty.

## 4. Conversions

140mm to cm  $140 \div 10 = 14\text{cm}$

250cm to mm  $250 \times 10 = 2500\text{mm}$

4200cm to m  $4200 \div 100 = 42\text{m}$

5m to cm  $5 \times 100 = 500\text{cm}$

30km to m  $30 \times 1000 = 30\,000\text{m}$

3500m to km  $3500 \div 1000 = 3.5\text{km}$

Extra: Sydney to Port Macquarie is about 311 km straight line, 387 by road.