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## Metrication quiz

Take this metrication quiz to find out about your **knowledge**, **skills** and **attitudes** towards metrication.

This quiz doesn't take long – about 20 minutes – and you will find out how much you really know about metrication.

The quiz is in three sections, each with 10 short questions.

The first part tests your **knowledge**;

the second part tests your **skills**; and

the third part tests your **attitudes**.

### Metrication quiz results

My score for the **knowledge** section was \_\_\_\_\_ %

My score for the **skills** section was \_\_\_\_\_ %

My score for the **attitudes** section was \_\_\_\_\_ %

**My combined score for all three sections was \_\_\_\_\_ %**

I am strongest in my **knowledge\*** / **skills\*** / **attitudes\***

I am weakest in my **knowledge\*** / **skills\*** / **attitudes\***

\*Delete two of these in each line.

**Turn the page to begin the quiz now.**

**When you finish, check your answers with the key at the end of the quiz.**

**Note:** We use the international spelling of metre and litre.

# Knowledge

- In SI, the modern metric system, everyday weather temperatures are reported in:
  - degrees Rankine
  - degrees Celsius
  - degrees Fahrenheit
  - degrees Reaumur
- The modern metric system, also known as SI is:
  - American
  - British
  - French
  - International
- A cup contains 250 millilitres. How many cups will it take to add a litre of water to a soup?
  - 1 cup
  - 2 cups
  - 3 cups
  - 4 cups
- Your butcher cuts steaks in 200 gram portions. How many steaks will you get to a kilogram?
  - 3 steaks
  - 4 steaks
  - 5 steaks
  - 10 steaks
- To convert kilometres to metres – or kilograms to grams – you multiply by:
  - 0.1
  - 10
  - 100
  - 1 000
- Your car has a kerb mass of 1.5 tonnes. How many kilograms is this?
  - 15 kg
  - 150 kg
  - 1 500 kg
  - 15 000 kg
- How many millilitres are there in a litre?
  - 10 mL
  - 100 mL
  - 1 000 mL
  - 10 000 mL
- You want to install a bath 1.9 metres long, and you know that modern plumbers work in millimetres. How many millimetres will you tell the plumber?
  - 19 mm
  - 190 mm
  - 1 900 mm
  - 19 000 mm
- If a hectare of land is marked out as a square with 100 metre long sides, how many square metres are there in one hectare?
  - 10 square metres
  - 100 square metres
  - 1 000 square metres
  - 10 000 square metres
- Complete this pattern:
  - 1 000 millilitres = 1 litre;
  - 1 000 milligrams = 1 gram;
  - 1 000 millimetres = 1 ?
  - metre
  - litre
  - kilogram
  - tonne

# Skills

This is about your skills in estimating, measuring, and calculating. Sometimes you need all three.

- 1 What is the approximate mass of a two litre bottle of soft drink?
  - a 1 kilogram
  - b 2 kilograms
  - c 5 kilograms
  - d 10 kilograms
- 2 How many 100 gram portions will you get from a kilogram of rice?
  - a 1 portion
  - b 2 portions
  - c 5 portions
  - d 10 portions
- 3 How much carpet will you need for your sitting room if it is 5 metres long by 4 metres wide?
  - a 10 square metres
  - b 20 square metres
  - c 50 square metres
  - d 100 square metres
- 4 If you plant nasturtiums 600 millimetres apart, how many plants will be in a 3 metre row?
  - a 2 plants
  - b 4 plants
  - c 6 plants
  - d 8 plants
- 5 What is the average birth mass of a newborn baby?
  - a 3.5 grams
  - b 35 grams
  - c 3.5 kilograms
  - d 35 kilograms
- 6 Sprinters run 100 metres in about 10 seconds. Their speed, in metres per second, is about:
  - a 10 m/s
  - b 20 m/s
  - c 50 m/s
  - d 100 m/s
- 7 What is the average adult female height in Australia, Canada, New Zealand, UK, or the USA?
  - a 1 metre
  - b 1.65 metres
  - c 2 metres
  - d 2.65 metres
- 8 What is the average adult male height in Australia, Canada, New Zealand, UK, and USA?
  - a 1 metre
  - b 1.75 metres
  - c 2 metres
  - d 2.75 metres
- 9 Which of these is closest to the speed limit inside the city limits?
  - a 10 km/h
  - b 20 km/h
  - c 50 km/h
  - d 100 km/h
- 10 In Tokyo, what approximate foot size would you tell your Japanese shoe supplier.
  - a 250 millimetres
  - b 250 decimetres
  - c 250 metres
  - d 250 kilometres

# Attitudes

This test is to assess your ability to use metric units in front of your family, your acquaintances, your friends, and your work associates. This test is really about your confidence and how courageous you feel when you are using metric units.

This test also gives you information about your mindset, and about how far you have progressed in changing your mindset to metric units.

Thirdly, this test asks you how personal you have made your own metrication process.

- 1 How tall are you?
- 2 How heavy are you?
- 3 How heavy were you on the day you were born?
- 4 How wide is your little fingernail?
- 5 How wide is your hand across your knuckles?
- 6 What is your waist measurement?
- 7 What size are your feet?
- 8 How long is your normal walking pace?
- 9 How long is your stretched hand span, from thumb to little finger?
- 10 Make a list of the ten most common measuring units you use.

# Metrication quiz - key to answers

## Knowledge

Score 10 points for each correct answer:

1 b, 2 d, 3 d, 4 c, 5 d, 6 c, 7 c, 8 c, 9 d, 10 a.

## Skills

Score 10 points for each correct answer:

1 b, 2 d, 3 b, 4 c, 5 c, 6 a, 7 b, 8 b, 9 c, 10 a.

## Attitudes

**For questions 1 to 9**

- ◇ If your answer used millimetres, metres, grams, or kilograms:
  - Score 10 points.
- ◇ If your answer included centi, hecto, deca, or deci – such as – centigrams, centilitres, centimetres, hectograms or decilitres:
  - Score 5 points\*.
- ◇ If your answer used the words: small, medium, large, feet, inches, pounds, stones, of fractions of any of these:
  - Score 0 points.

**For question 10**

- ◇ For question 10, simply count how many metric units you use every day.

\* The reason for these lower scores is because using these prefixes maintains the use of decimal and vulgar fractions and this will slow down your metrication process dramatically. For comprehensive details on this issue see the pdf document:

**'centimetre or millimetres – which will you choose?'**

that you will find at: <http://www.metricationmatters.com/articles.html>