

## [CONVERSION OF UNITS]

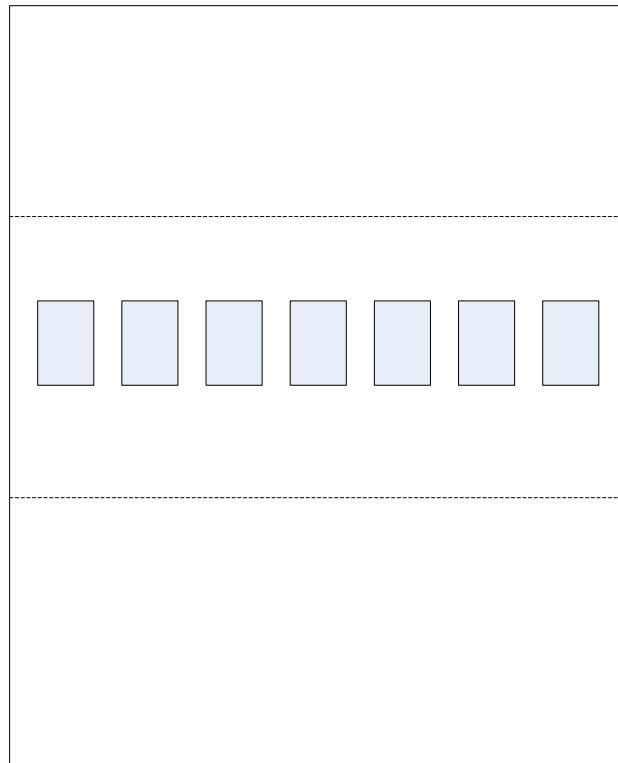
Blue group: Convert one decimal unit into another. Use a currency conversion graph to convert one currency to another. Use two currency conversion graphs simultaneously. Draw a currency conversion graph.

## Construct a Unit Converter

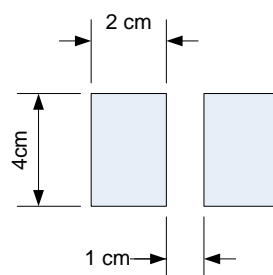
What you will need: Scissors, A3 paper, A4 paper/card, glue

Diagram

The A3 paper should end up looking something like this:



The blue rectangles are holes cut out with the following dimensions:



The dashed lines are folds.

You will need to glue the top third of the paper to the bottom third of the paper.

Fold the A4 paper so it will slot through and then you have your conversion machine.

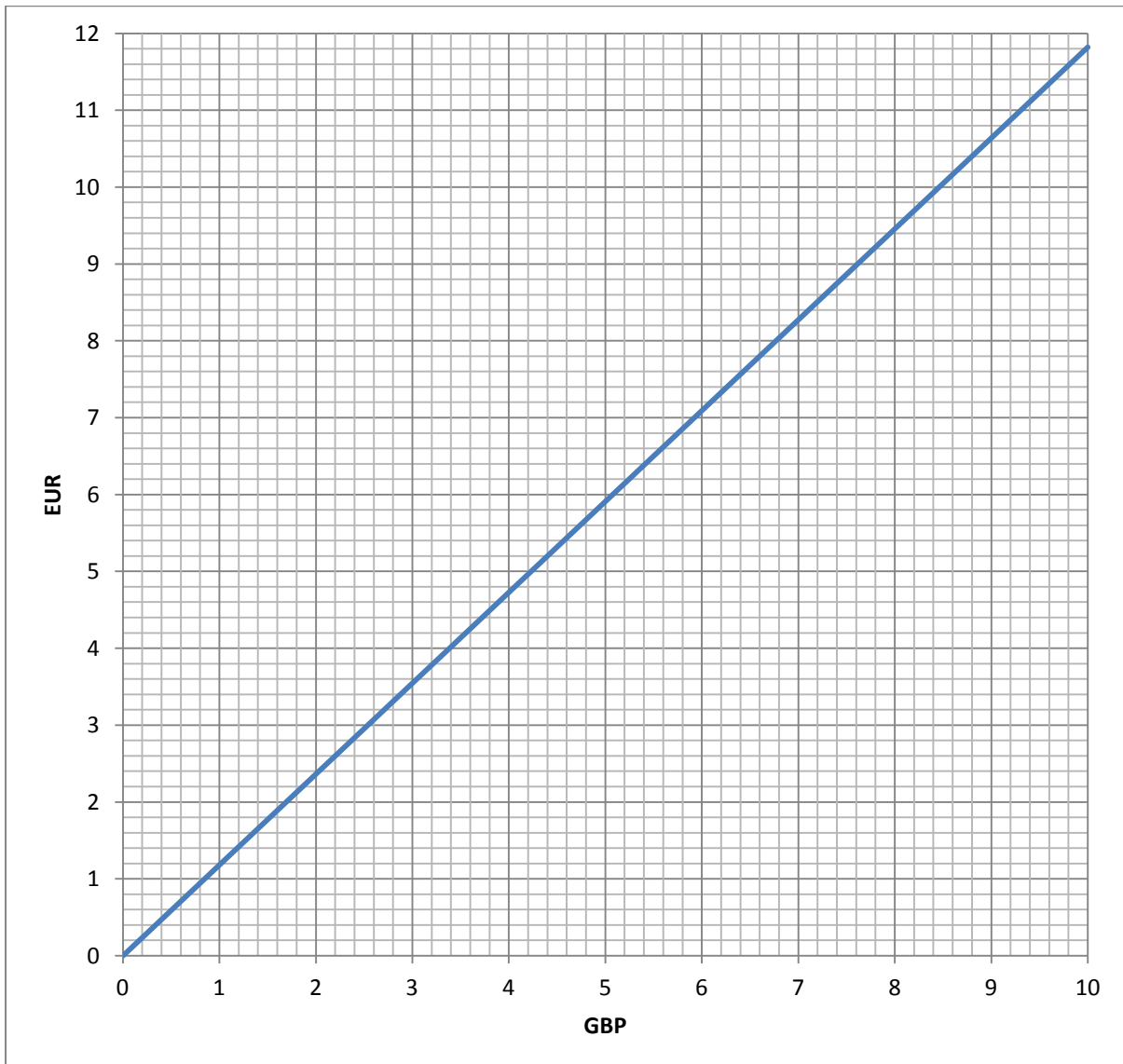
**Converting metric units from one form to another**

- 1     282.2 l     is the same as      ml     ( $\times 1000$ )
- 2     10.3 m     is the same as      cm     ( $\times 100$ )
- 3     3.56 m     is the same as      mm     ( $\times 1000$ )
- 4     24.35 cm     is the same as      mm     ( $\times 10$ )
- 5     6253 g     is the same as      kg     ( $\div 1000$ )
- 6     4230 ml     is the same as      litres     ( $\div 1000$ )
- 7     6923 cl     is the same as      litres     ( $\div 100$ )
- 8     1569 mm     is the same as      cm     ( $\div 10$ )
- 9     7158 mm     is the same as      m     ( $\div 1000$ )
- 10     857 cm     is the same as      m     ( $\div 100$ )
- 11     8.47 kg     is the same as      g     ( $\times 1000$ )
- 12     9.838 l     is the same as      ml
- 13     20.72 m     is the same as      cm
- 14     9.24 m     is the same as      mm
- 15     10.11 cm     is the same as      mm
- 16     4842 g     is the same as      kg
- 17     8814 ml     is the same as      litres
- 18     5048 cl     is the same as      litres
- 19     1811 mm     is the same as      cm
- 20     5903 mm     is the same as      m
- 21     792 cm     is the same as      m

- 1 156.8 l is the same as  ml
- 2 11.98 m is the same as  cm
- 3 25.15 m is the same as  mm
- 4 11.73 cm is the same as  mm
- 5 231 g is the same as  kg
- 6 6043 ml is the same as  litres
- 7 8671 cl is the same as  litres
- 8 7017 mm is the same as  cm
- 9 8803 mm is the same as  m
- 10 743 cm is the same as  m
- 11 12 kg is the same as  g
- 12 96.28 l is the same as  ml
- 13 2.36 m is the same as  cm
- 14 29.81 m is the same as  mm
- 15 26.82 cm is the same as  mm
- 16 3845 g is the same as  kg
- 17 4883 ml is the same as  litres
- 18 1543 cl is the same as  litres
- 19 36 mm is the same as  cm
- 20 3571 mm is the same as  m
- 21 778 cm is the same as  m
- 22 12 kg is the same as  g

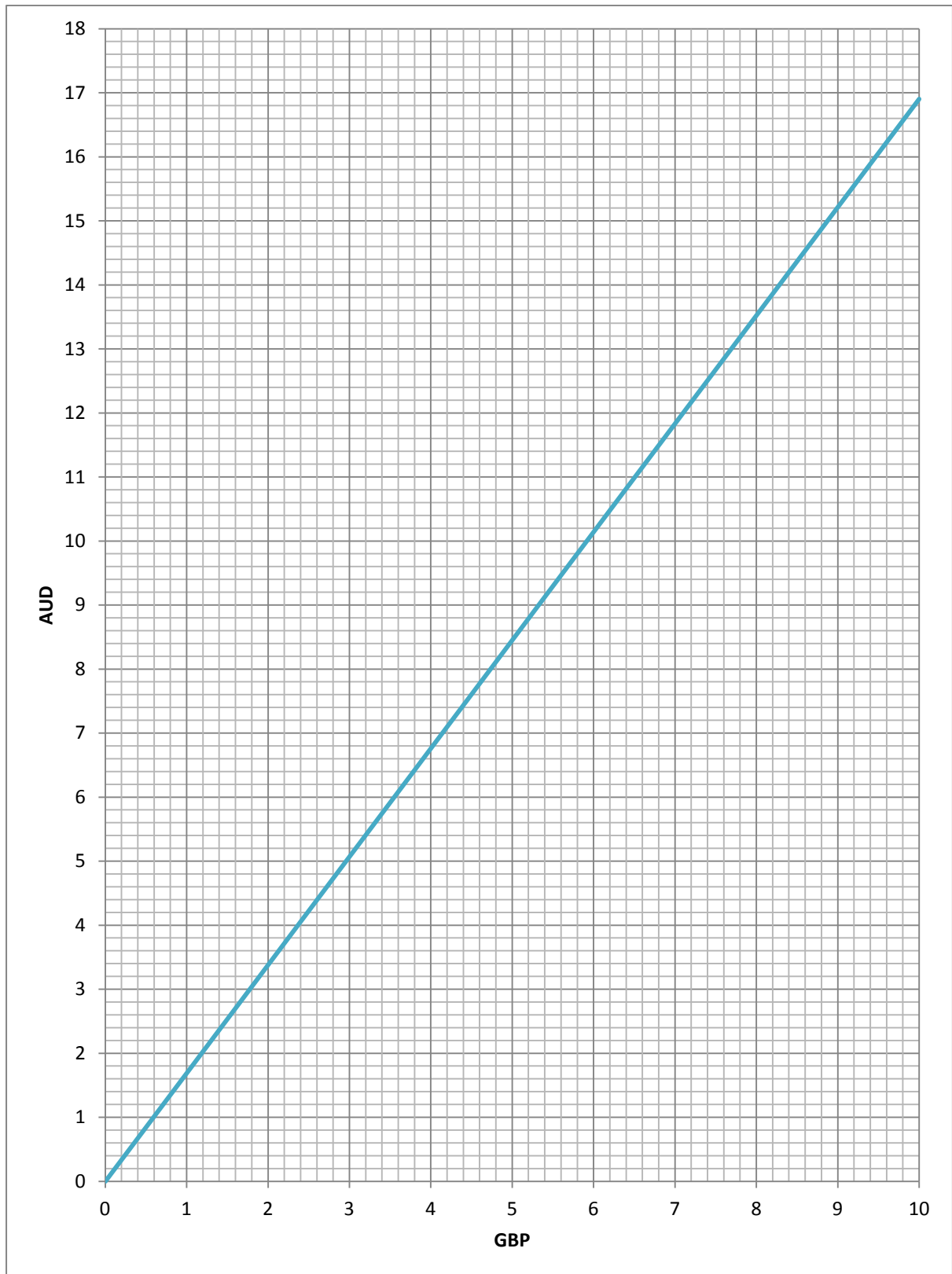
## Using a graph to convert one currency to another

The graph below shows the conversion of GB Pounds to Euros on 3rd November 2013.



1. How many Euros can you get for £1.00?
2. How many Euros can you get for £10.00?
3. How many Euros can you get for £100.00?
4. How many pounds can you get for six Euros?
5. How many pounds can you get for sixty Euros?
6. How many pounds can you get for 3.6 Euros?
7. How many pounds can you get for 18 Euros?
8. How many Euros can you get for £38.00?

Below is a conversion graph converting GB pounds into Australian dollars.



See next page for questions

**Questions about the GBP to AU\$ Conversion Graph**

1. How many dollars can you get for £1.00?
2. How many dollars can you get for £4.40?
3. How many dollars can you get for £7.50?
4. How many dollars can you get for £75.00?
5. How many dollars can you get for £44.00?
6. How many pounds can you get for AU\$13.50?
7. How many pounds can you get for AU\$ 135.00?
8. How many pounds can you get for AU\$40.00?
9. How many pounds can you get for AU\$4,000.00?
10. To the nearest pound, how much can you get for AU\$12.00?
11. To the nearest pound, how much can you get for AU\$9.00?
12. To the nearest AU\$, how much can you get for £4.00?

**Questions about Converting AU\$ to Eur.**

(You will need to use both conversion graphs for this.)

13. How many Euros can you get for AU\$8.00?
14. How many Euros can you get for AU\$12.00?
15. How many AU\$ can you get for Eighty Euros?

Draw a currency conversion graph for a country that has a currency that converts at a rate of \$3.5 to the £1.

Make up five questions that can be answered from that graph.