

## [CONVERSION OF UNITS]

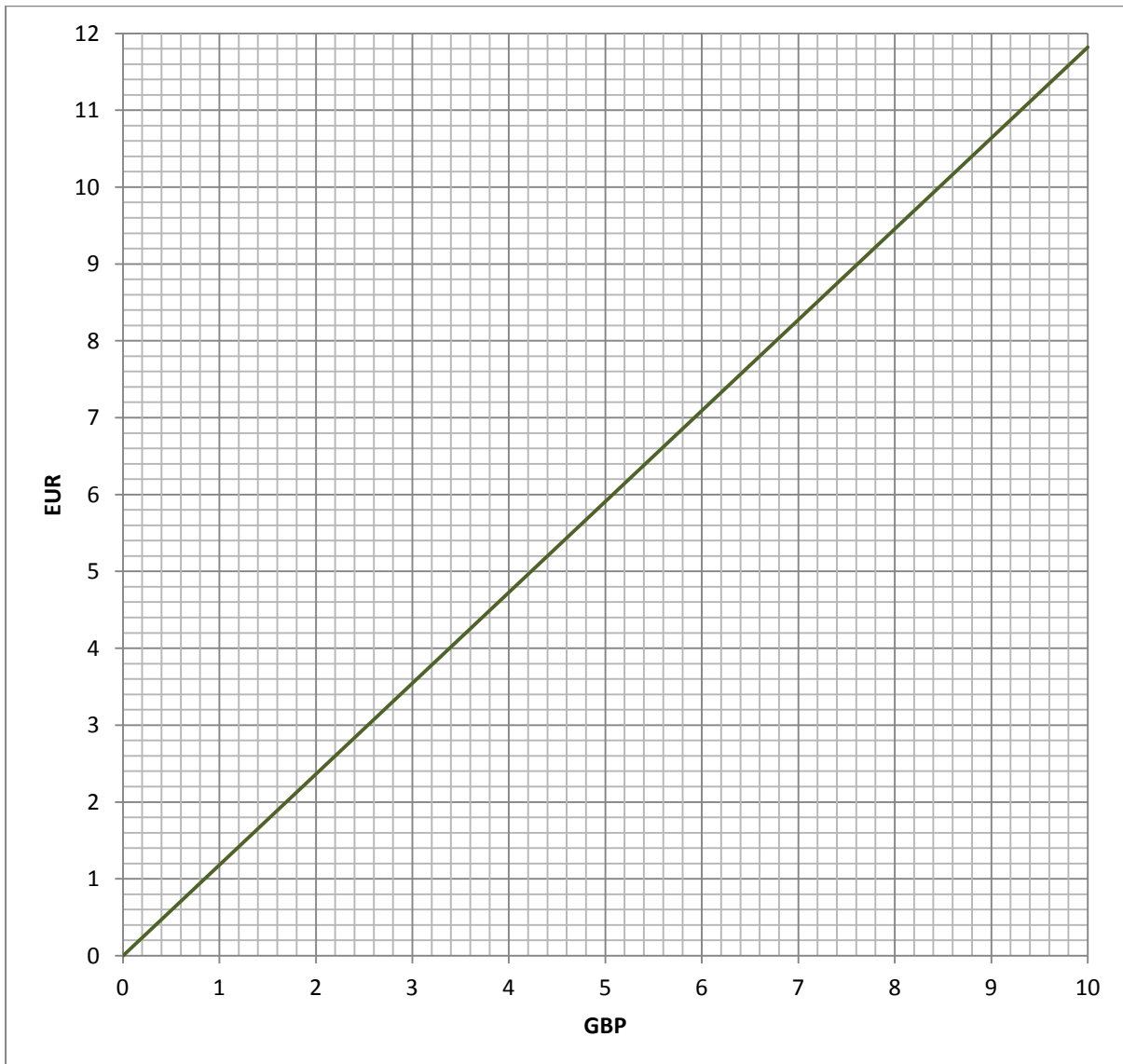
Black group: Convert one decimal unit into another. Use a currency conversion graph to convert one currency to another. Use two currency conversion graphs simultaneously. Draw some conversion graphs. Convert distances from metric to Imperial units using two or more graphs.

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

- 1      282.2 l      is the same as       ml
- 2      10.3 m      is the same as       cm
- 3      3.56 m      is the same as       mm
- 4      24.35 cm      is the same as       mm
- 5      6253 g      is the same as       kg
- 6      4230 ml      is the same as       litres
- 7      6923 cl      is the same as       litres
- 8      1569 mm      is the same as       cm
- 9      7158 mm      is the same as       m
- 10      857 cm      is the same as       m
- 11      8.47 kg      is the same as       g
- 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

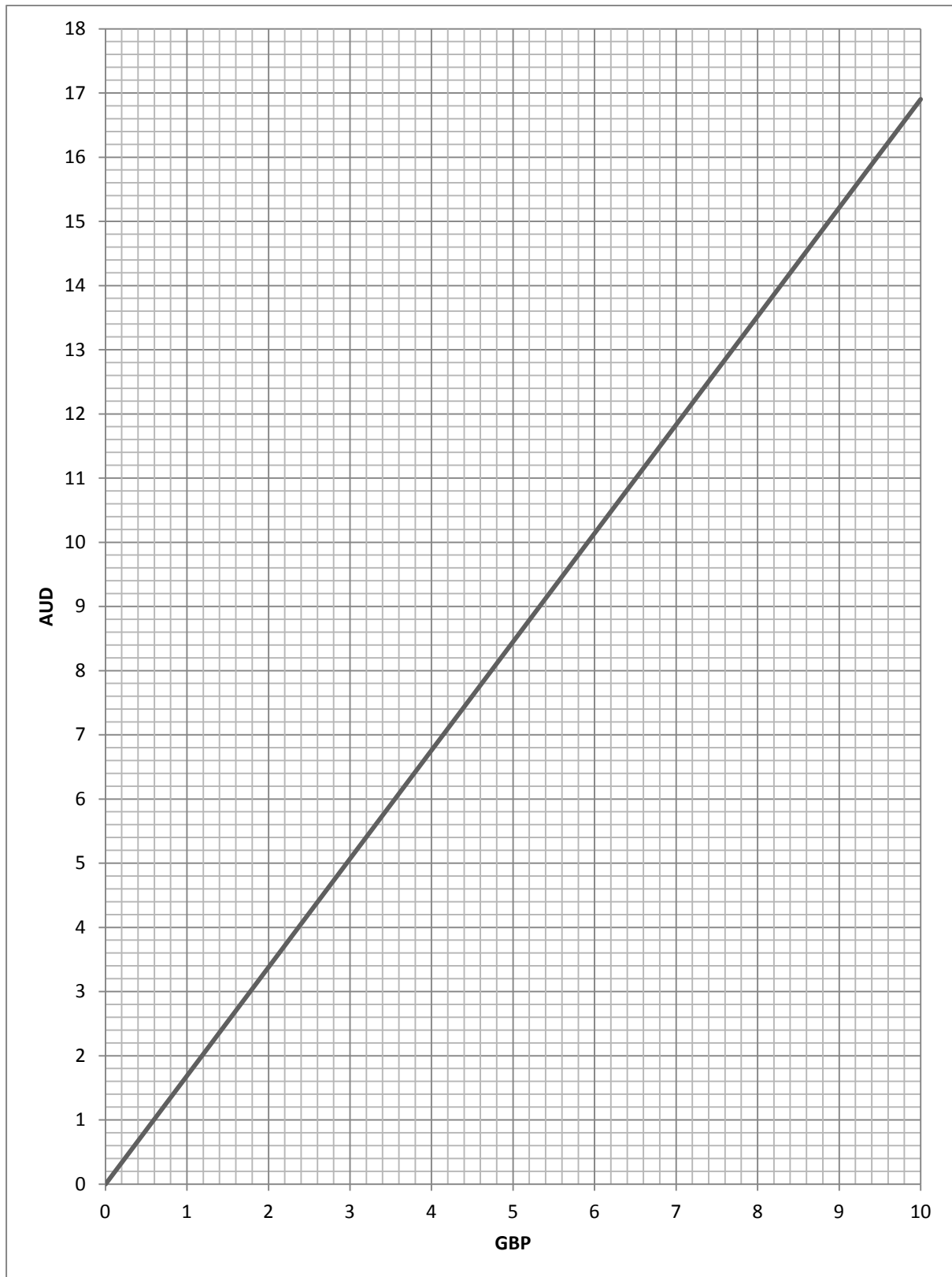
## Using a graph to convert one currency to another

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.**

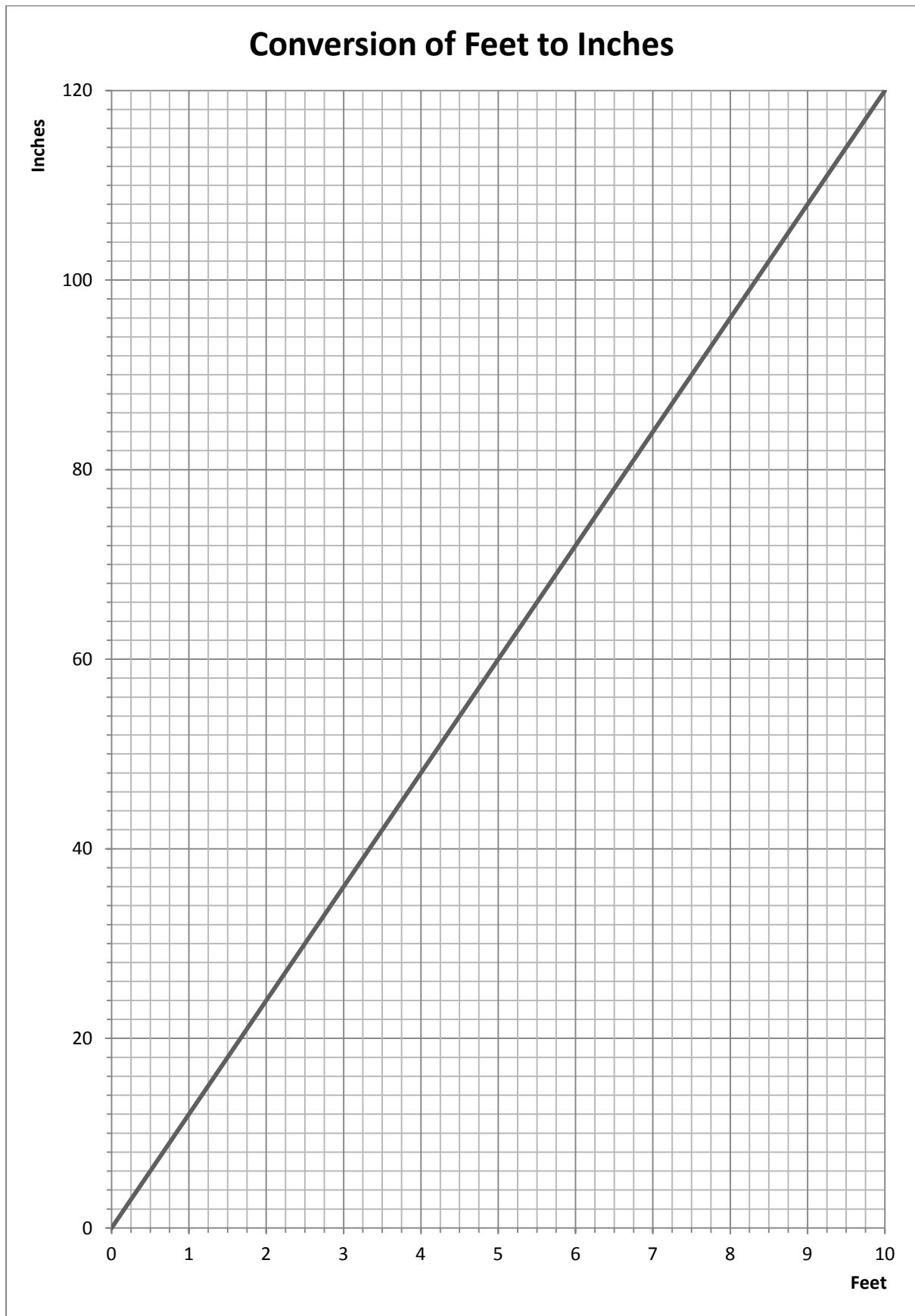
(You will need to use both conversion graphs for this.)

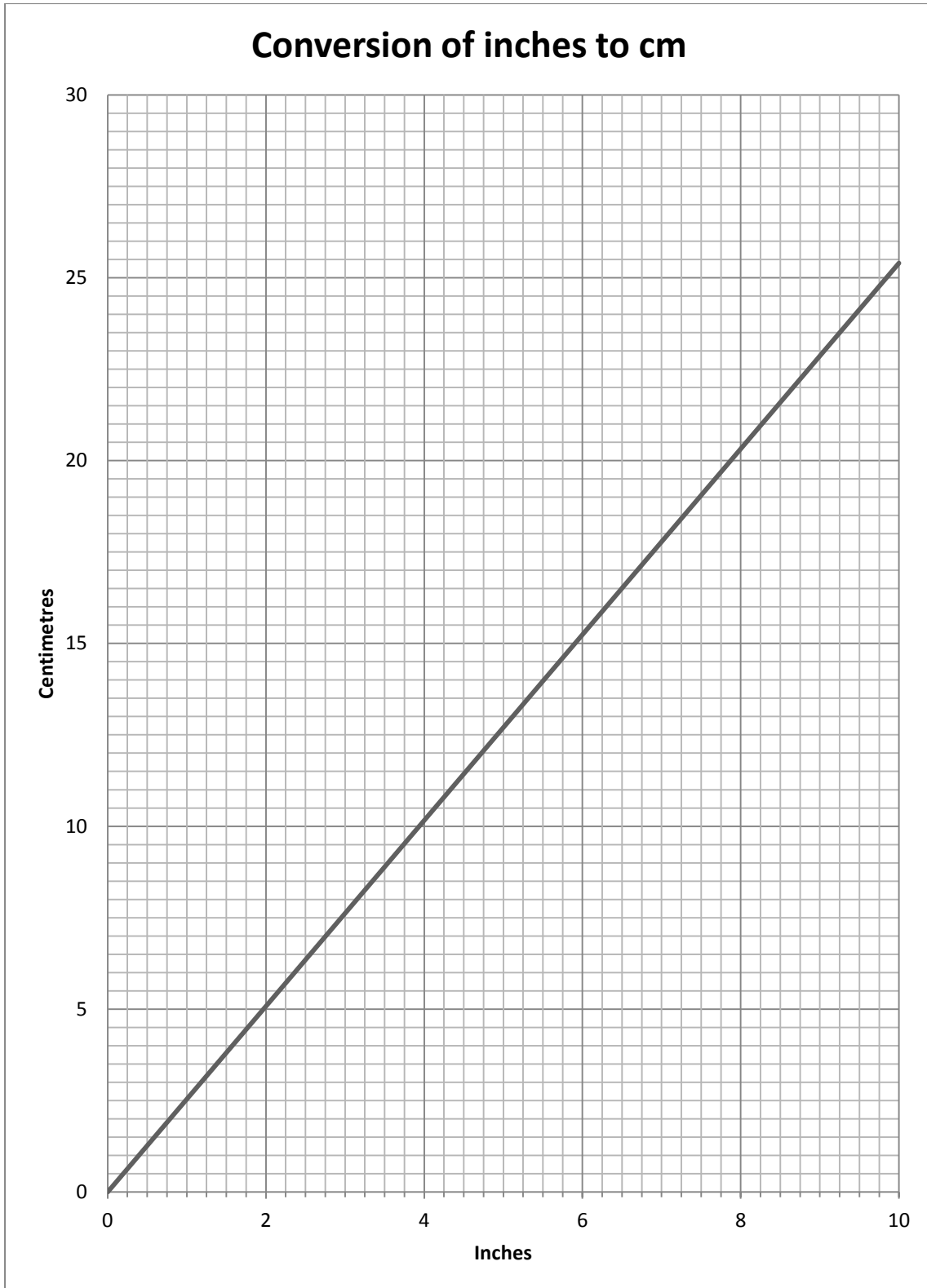
13. How many Euros can you get for AU\$8.00?
14. How many Euros can you get for AU\$12.00?
15. How many AU\$ can you get for Eighty Euros?

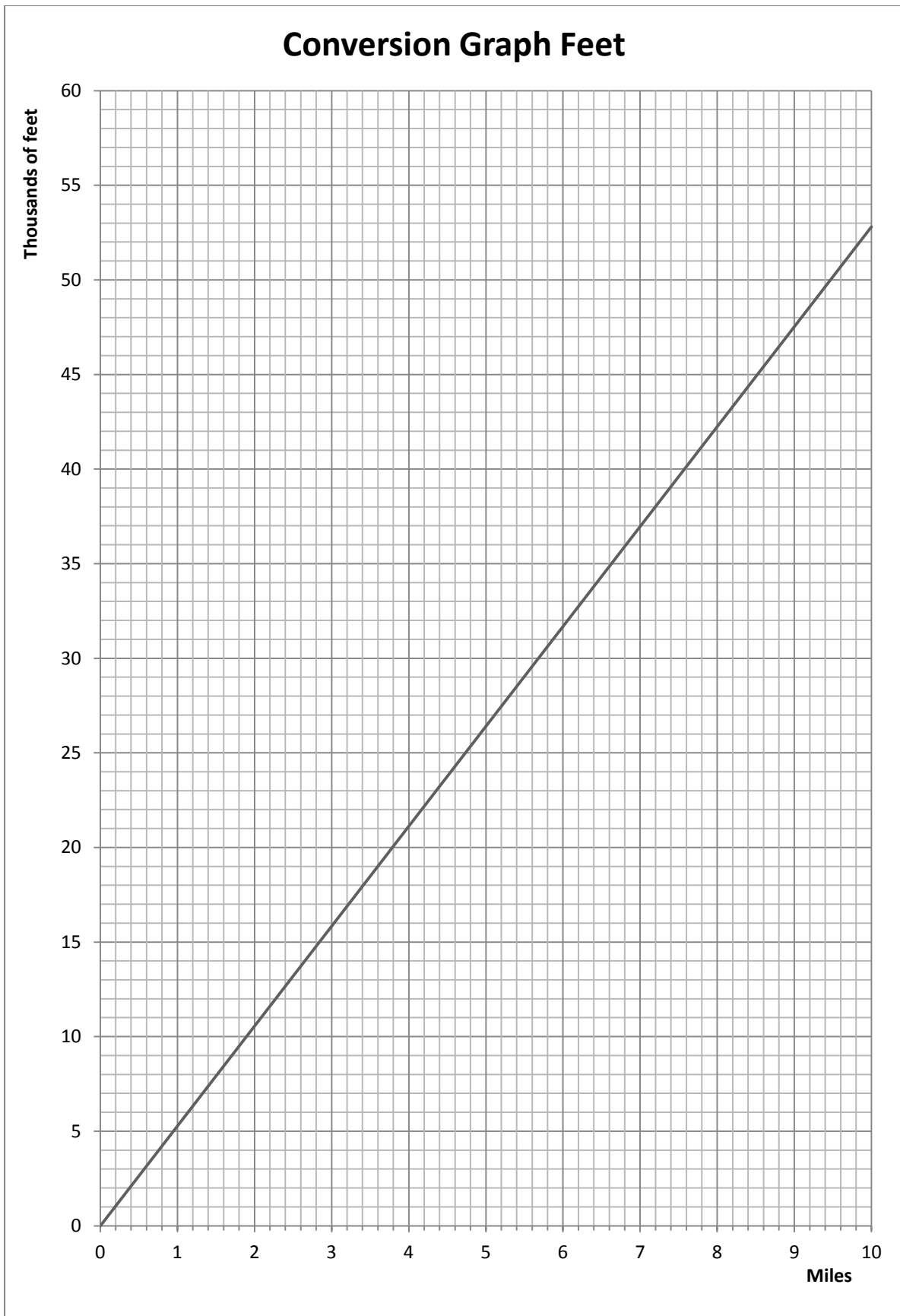
Draw a currency conversion graph for a country that has a currency that converts at a rate of \$3.5 to the £1.

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

## Conversion of Imperial to Metric Measures









1. How many inches are there in 3 miles?
2. How many metres are there in five and a half miles?
3. How many km are there in two point seven miles?
4. John walked twelve and a half miles on a hike with the Scouts. It took him 4 hours and 32 minutes.
  - i. How many km did he walk?
  - ii. How fast did he walk in  $\text{kmh}^{-1}$ ?
5. What is the furthest in these amounts:  
 5 miles          7000 m          29,500 inches          8,250 feet          60,000 cm
6. Use the information you can glean from the graphs provided to create a conversion graph of feet to kilometres.
7. Use the information to draw a graph converting miles to kilometres.
8. There are three feet in one yard. Use this information to calculate the number of yards in eight miles.
9. To convert Celsius to Fahrenheit:  $\left(\frac{9}{5} C\right) + 32 = F$   
 To convert Fahrenheit to Celsius:  $\frac{5}{9}(F - 32) = C$   
 Use this information to draw a conversion graph from Celsius to Fahrenheit.
10. 273.16 Kelvin is the same temperature as  $0^{\circ}\text{C}$ . 283.16 Kelvin is the same temperature as  $10^{\circ}\text{C}$ . Use this information to work out what is Absolute zero (0 Kelvin) in  $^{\circ}\text{F}$ .