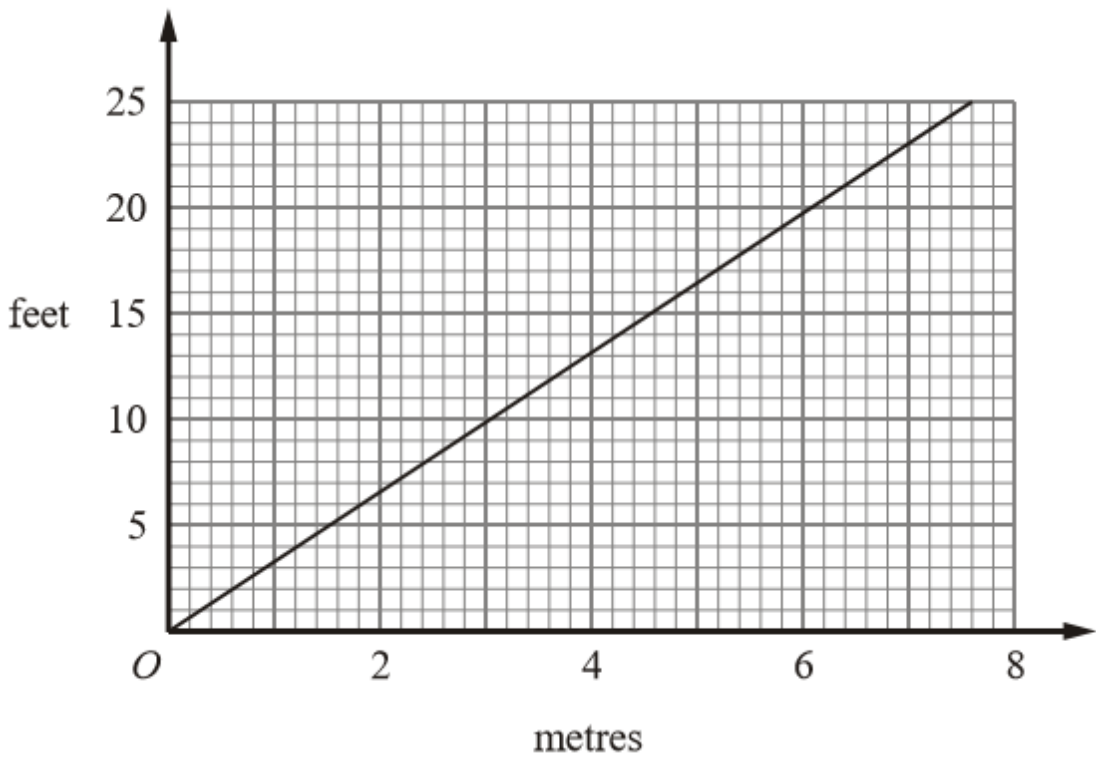




A **conversion graph** is a tool that we use to convert between different units. Any conversion graph you see will be a **straight-line graph**. You have to know how to construct a conversion graph given a conversion rate, and also how to use a conversion graph. Watch these two you tube videos about conversion Graphs:
<https://www.youtube.com/watch?v=tqV1nTNckJ8>
https://www.youtube.com/watch?v=s7B4GmjOz3Q_c

Ex A. Conversion graphs - Metres and Feet.



(a) Use the conversion graph to change 6 metres to feet. _____ feet

(b) Use the conversion graph to change 8 feet to metres. _____ metres

Robert jumps 4 metres. James jumps 12 feet.

(c) (i) Who jumps furthest, Robert or James? _____

(ii) How did you get your answer?

Ex B. Conversion graphs - inches to centimetres

$$2 \text{ inches} = 5 \text{ cm}$$

1. Use this fact to complete these number sentences:

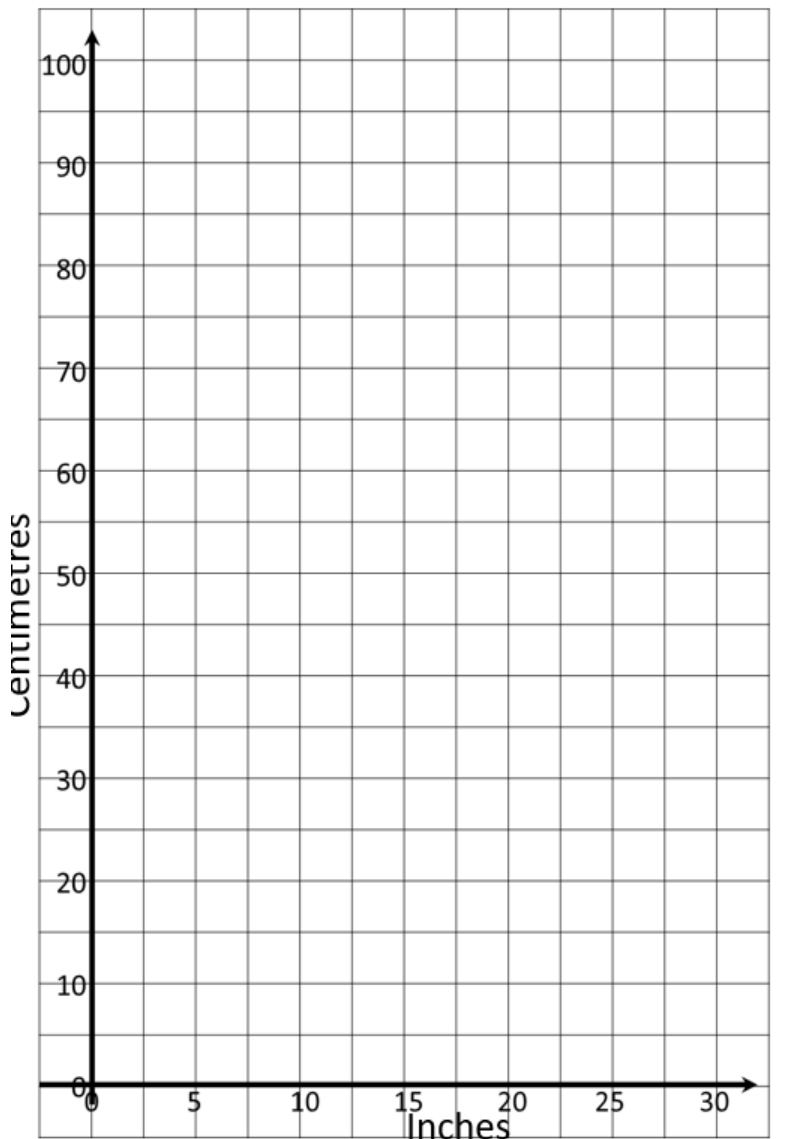
1. 20 inches = _____ cm

2. _____ inches = 10cm

3. 25 inches = _____ cm

4. _____ inches = 30cm

2. Plot these points on the conversion graph below. Join the points with a line. (You should have a single straight line starting at (0, 0).)



Use your graph to estimate the answers for these conversions.

a. 17.5 inches = _____ cm

b. _____ inches = 70cm

c. 40 inches = _____ cm

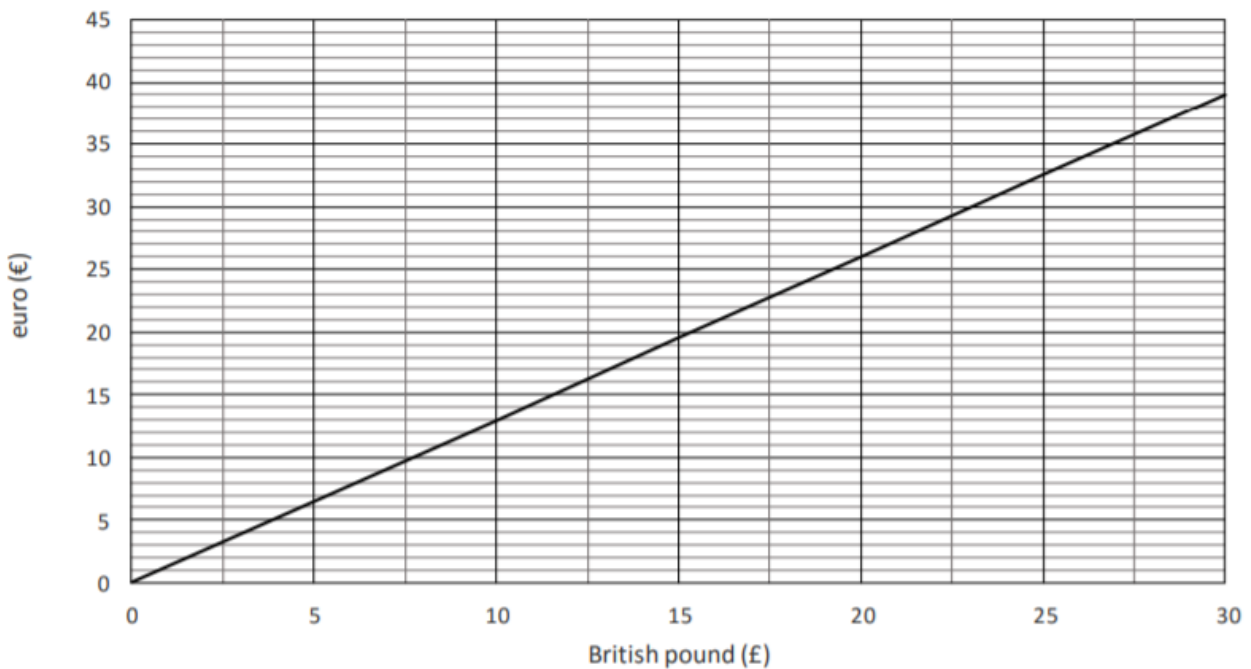
d. _____ inches = 300cm

3. In Malta, we use the euro (€) to buy things.
In England, people use the British pound (£).

a) Look at the graph below and complete the following **table**.

British pound (£)	0	5	10	15	20	25	
euro (€)	0	6.50		19.50		32.50	39

The British pound and the euro

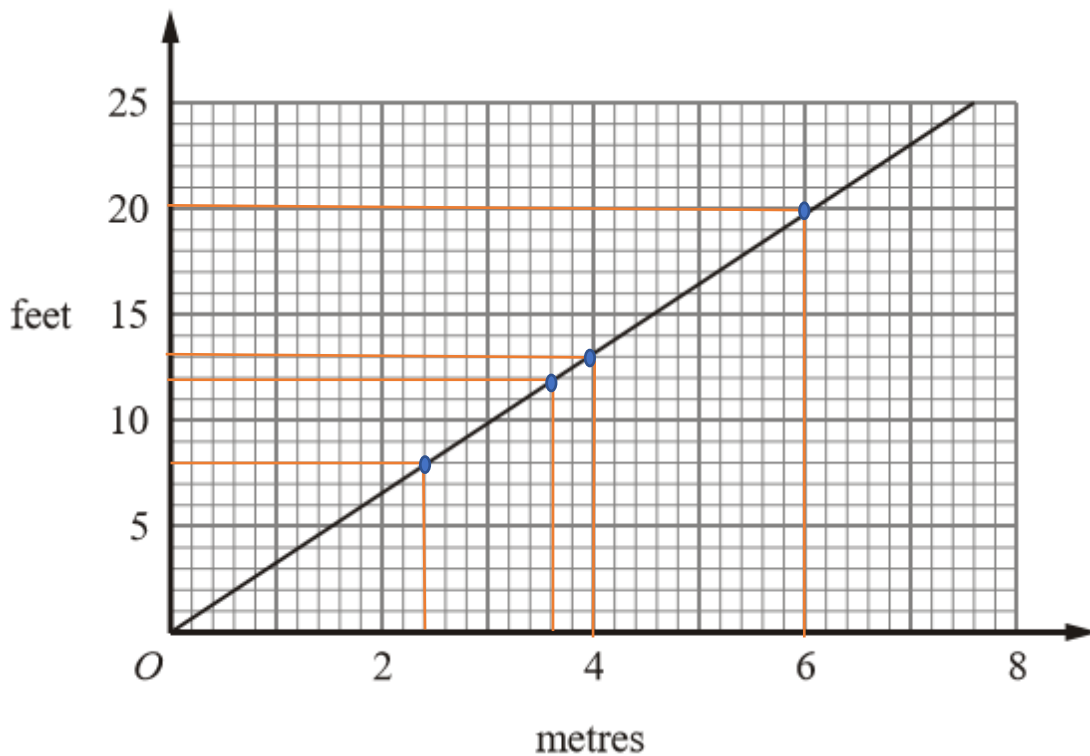


- b) How many **euro (€)** are **equal to 50 British pounds (£)**?

Show your
working here.

_____ euro

Ex A. Conversion graphs - Metres and Feet.



(a) Use the conversion graph to change 6 metres to feet. 20 feet

(b) Use the conversion graph to change 8 feet to metres. 2.4 metres

Robert jumps 4 metres. James jumps 12 feet.

(c) (i) Who jumps furthest, Robert or James? Robert

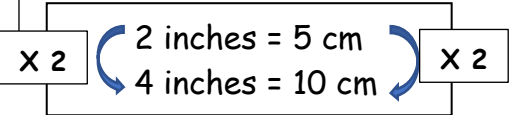
(ii) How did you get your answer?

Robert - 4 metres = 13 feet

James - 12 feet = 3.6 m

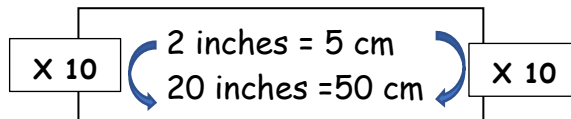
Ex B. Conversion graphs - inches to centimetres

2 inches = 5cm

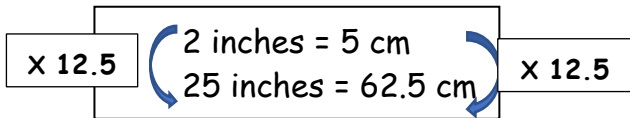


Use this fact to complete these number sentences:

1. 20 inches = **50cm**

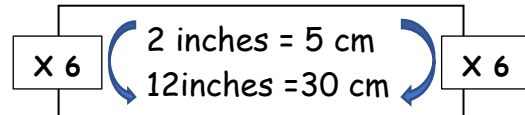


2. **4** inches = 10cm

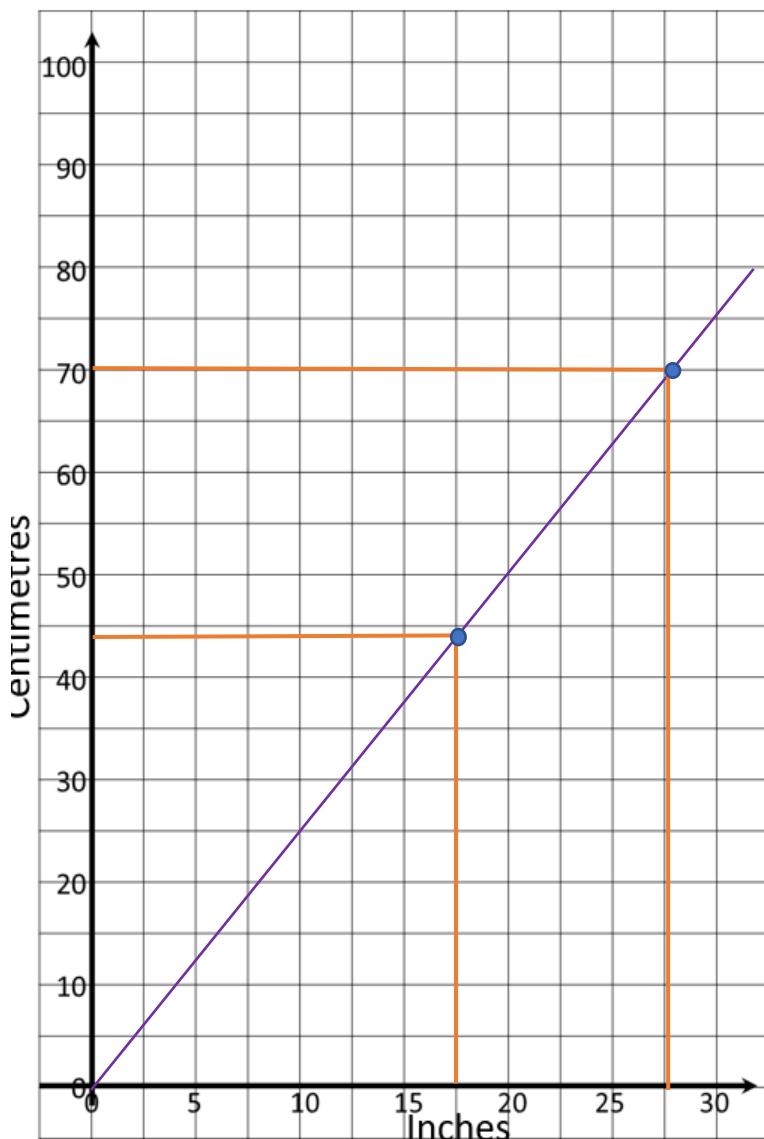


3. 25 inches = **62.5cm**

4. **12** inches = 30cm



5. Plot these points on the conversion graph below. Join the points with a line. (You should have a single straight line starting at (0, 0).)



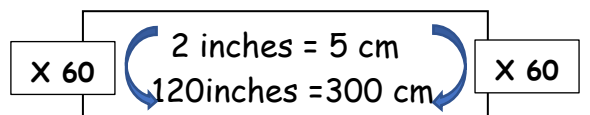
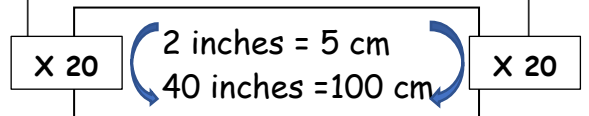
Use your graph to estimate the answers for these conversions.

a. 17.5 inches = **44** cm

b. **28** inches = 70cm

c. 40 inches = **100** cm

d. **120** inches = 300cm

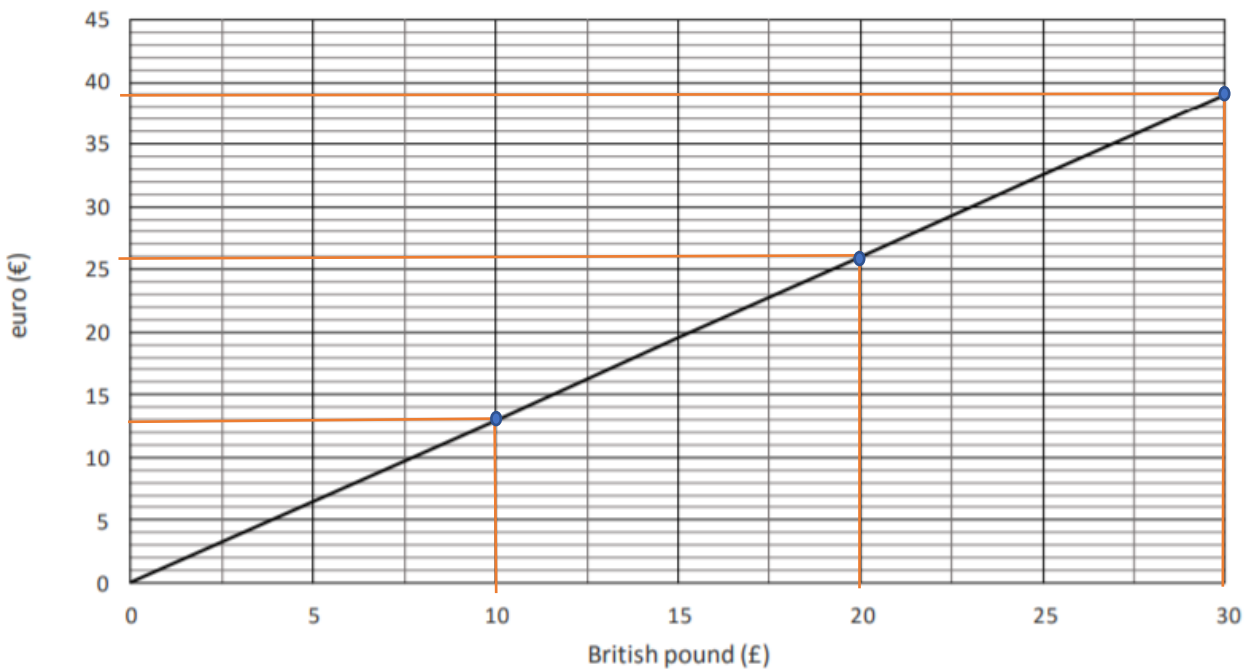


3. In Malta, we use the euro (€) to buy things.
In England, people use the British pound (£).

a) Look at the graph below and complete the following table.

British pound (£)	0	5	10	15	20	25	30
euro (€)	0	6.50	13.00	19.50	26.00	32.50	39

The British pound and the euro



b) How many euro (€) are equal to 50 British pounds (£)?

Show your working here.

$$\begin{array}{l} \boxed{\times 5} \quad \left(\begin{array}{l} 10 \text{ British pounds} = \text{€}13 \\ 50 \text{ British pounds} = \text{€}65 \end{array} \right) \quad \boxed{\times 5} \end{array}$$

65 euro