Imperial to Metric Measures.

Below is a table to help us to convert from one unit of measure to another.

(Note: the wiggly equal sign ≈ just means 'approximately equal to'.)

Length

1 inch ≈ 2.5 cm 1 foot ≈ 30 cm 1 mile ≈ 1.6 km 5 miles ≈ 8 km



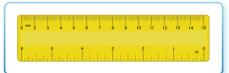


Capacity

8 pints = 1 gallon 1 gallon ≈ 4.5l 1 pint ≈ 570ml

Mass

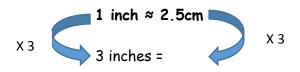
16 ounces = 1 pound 1 ounce \approx 25g 1 pound \approx 450g 2.2 pounds \approx 1 kg



If we know 1 inch ≈ 2.5cm

If we measure an object to be 3 inches long, we may need to know what the measure is in centimetres so using the above fact, we can work this conversion out.

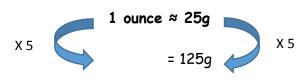
To find 3 inches, we multiply the 1 inch by 3, so we do the same to the 2.5cm.



So, we can say 3 inches = 7.5cm

If we know 1 ounce $\approx 25g$

If we weigh an ingredient in grams, we may need to know what the measure is in ounces so we can follow a recipe. Using the above fact, we can work this conversion out.



So, we can say 5 ounces = 125g

To find how many ounces is the same as 125 grams , we have to work out what we multiply 25 by to get to 125 and then we can do the same to the 1 ounce.



I go to the shop and buy 16 pints of milk.

1. How many gallons of milk have I bought?

____2 gallons____

2. Convert that answer into litres

<u>Solution</u>: I have completed the first one to show you how to work it out.

For question 1 - we need to know that:

For question 2 - we need to know that:

2 gallons =



- 3. When baking a cake I need 100grams of sugar. Convert this to ounces.
- 4. I also need 300grams of cocoa powder.

 Convert this to ounces.

Solution:

For question 3 and 4 - we need to know that:

1 ounce $\approx 25g$



A baby weighs 4kg when it is born.Convert this to pounds.

Solution:

For question 5 - we need to know that: 2.2 pounds ≈ 1 kg



Subway measures their sandwiches in inches and feet.

- 6. If you have a 6 inch sandwich, how many cm long is your sandwich?
- 7. If you have a foot long sandwich, how many cm long is it?

Solution:

For question 6 - we need to know that:

1 inch ≈ 2.5 cm

For question 7 - we need to know that:

1 foot ≈ 30cm



Domino's measure their pizzas in inches. (" is the unit for inches) Work out the size of each pizza in cm.

- 8. Small 9" _____
- 9. Medium 11" _____
- 10. Large 13" _____

Solution:

For question 8-10 - we need to know that:

1 inch \approx 2.5 cm



The longest snake ever is 7.2m.

- 11. Convert 7.2m into cm_____
- 12. Convert your answer to feet_____

Solution:

For question 11 - we need to know that: 1 metre = 100 cm

For question 12 - we need to know that:

1 foot ≈ 30cm