

Thursday: Converting metric and imperial units - inches / cm

**1 inch = 2.5cm (approximately)**

**Inches to cm = X by 2.5**

**Cm to Inches = Divide by 2.5**

6 inches =  $6 \times 2.5$

You could write out your 2.5 times tables down the side of your page ->

= 15cm

1. 2.5
2. 5
3. 7.5
4. 10
5. 12.5
6. 15
7. 17.5
8. 20

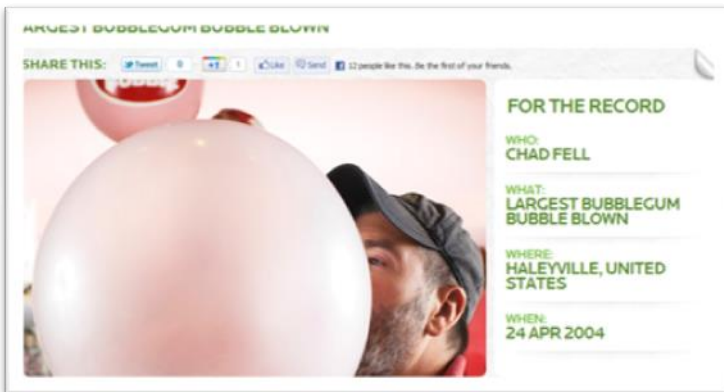
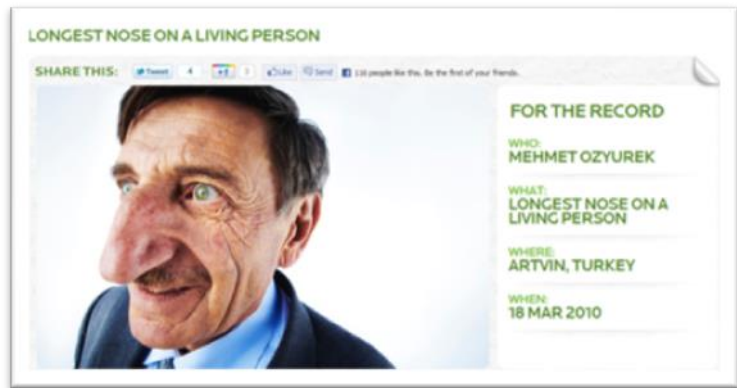
Etc.

Give answers to 1 decimal place.

1. a) Convert 12.5cm to inches.

b) Convert 6cm to inches.

c) The longest nose on a living person is 8.8cm. Convert this measurement to inches.



2. a) The largest bubblegum bubble blown has a diameter of 20.3 inches. Convert this measurement to centimetres.

b) Convert 14 inches to centimetres.

c) Convert 7.4 inches to centimetres.



Extension question

I run a 10km race in 56 minutes. What is my average speed for the race in:

a) kilometres per minute

b) miles per minute

c) miles per hour

### Answers

1. a)  $12.5\text{cm} / 2.5 = 5 \text{ inches}$

b)  $6\text{cm} / 2.5 = 2.4 \text{ inches}$

c)  $8.8\text{cm} / 2.5 = 3.52 = 3.5 \text{ inches (1 dp)}$

2. a)  $20.3 \text{ inches} \times 2.5 = 50.75 = 50.8\text{cm (1 dp)}$

b)  $14 \text{ inches} \times 2.5 = 35\text{cm}$

c)  $7.4 \text{ inches} \times 2.5 = 18.5\text{cm}$

### Extension

a)  $10\text{km} / 56 \text{ minutes} = 0.1785714... = 0.2 \text{ km per minute}$

b)  $10 \text{ km} / 1.6 = 6.25 \text{ miles}$ .  $6.25 \text{ miles} / 56 \text{ minutes} = 0.11160714... = 0.1 \text{ miles per minute}$

c) 60 mins in 1 hour.  $0.11160714... \times 60 = 6.69642857... = 6.7 \text{ miles per hour}$