

## N213 Unit conversions

### Q1.

(a) Change 4560 g into kg.

..... kg  
(1)

(b) Change 7.3 m into mm.

..... mm  
(1)

**(Total for question = 2 marks)**

### Q2.

Shaun is 1.88 m tall.

David is 6 cm taller than Shaun.

How tall is David?

.....  
**(Total for question = 2 marks)**

### Q3.

(a) Change 365 cm into metres.

..... m  
(1)

(b) Change 2.7 kg into grams.

..... g  
(1)

**(Total for question = 2 marks)**

**Q4.**

(a) Change 35 cm to mm.

..... mm  
(1)

(b) Change 7700 millilitres to litres.

..... litres  
(1)

(c) Change 0.32 kilograms to grams.

..... grams  
(1)

**(Total for question = 3 marks)**

**Q5.**

There are 1.5 litres of water in a bottle.

There are 250 millilitres of water in another bottle.

Work out the total amount of water in the two bottles.

.....

**(Total for question is 3 marks)**

**Q6.**

Jaroslav puts some items into his rucksack.

The table shows the weight of each item.

Item	Weight
2 apples	120 g each
2 bottles of water	524 g each
camera	474 g
map	86 g
mobile phone	214 g
umbrella	339 g

The rucksack has a weight of 275 g.

Work out the total weight of the rucksack and all the items.

Give your answer in kilograms.

..... kg

**(Total for question = 3 marks)**

**Q7.**

Ken buys some fruit.

He buys apples, bananas, peaches and oranges.

Ken buys

4 apples weighing 125 g each

2 bananas weighing 170 g each

3 peaches weighing 135 g each

Each orange has a weight of 90 g.

The fruit has a total weight of 1.785 kg.

(a) Work out how many oranges Ken buys.

.....  
(3)

Jane wants to buy 15 tomatoes.

She asks for 1 kg of tomatoes at a shop.

Jane assumes that each tomato has a weight of 75 g.

(b) (i) If Jane's assumption is correct, will she get 15 tomatoes?

You must show how you get your answer.

(2)

(ii) If Jane's assumption is **not** correct, could she get 15 tomatoes?

Justify your answer.

.....  
.....  
(1)

**(Total for question = 6 marks)**

**Q8.**

An American airline has a maximum size for bags on its planes.  
The diagram shows the maximum dimensions.



Chris has a bag.

It has

height 50 cm

width 40 cm

depth 20 cm

1 inch = 2.54 cm

Can Chris take this bag on the plane?

You must show your working.

**(Total for question is 3 marks)**

**Q9.**

Change 72 km/h into m/s.

..... m / s

**(Total for question = 3 marks)**

**Q10.**

There are 18500 gallons of fuel in a fuel tank.

The fuel is pumped from the fuel tank into a plane at a rate of 1700 litres per minute.

1 gallon = 4.5 litres.

How many minutes will it take to empty the fuel tank completely?

Give your answer to the nearest minute.

..... minutes

**(Total for question = 3 marks)**