# Learning Enhancement Team – Mathematics & Statistics

Pharmaceutical Calculations 3

## Conversions Between Imperial and Metric Units

1. Convert the following into the given unit, using 1 inch = 2.5 cm
2. 36 inches into cm
3. 12.5 cm into inches
4. 5 feet into inches

1 foot = 12 inches

1. 5 feet into cm
2. 5 feet into m

150 cm = 1.5 m

1. 5 feet 4 inches into cm
2. 6 feet 2 inches into cm
3. 4 feet 8 inches into m
4. 180 cm into feet and inches
5. 1.6 m into feet and inches
6. 1.45 m into feet and inches
7. 2.2 m into feet and inches
8. Convert the following into the given unit, using 2 lbs = 1 kg
9. 100 lbs into kg
10. 30 lbs into kg

15 kg

1. 18 kg into lbs
2. 12 stone into lbs

1 stone = 14 lbs

1. 12 stone into kg

168 lb = 84 kg

1. 15 stone 3 lbs into kg
2. 18 stone 10 lbs into kg
3. 70 kg into stone and lbs
4. 80 kg into stone and lbs
5. 45000 g into stone and lbs
6. Convert the following into the given unit, using 1 pint = 500 ml
7. 30 pints into ml
8. 30 pints into l

15 l

1. 12 pints into l
2. 2000 ml into pints
3. 40 l into pints
4. Given than 1 UK gallon is 8 pints, convert 5 gallons into litres.

## BMI Calculations

1. Find the BMI of the following patients:
2. Mass = 70 kg, height = 2 m
3. Mass = 49 kg, height = 140 cm
4. Mass = 51.2 kg, height = 160 cm

## BSA Calculations

1. Find the BSA of the following patients:
2. Mass = 60 kg, height = 1.8 m
3. Mass = 80 kg, height = 180 cm
4. Mass = 150 kg, height = 192 cm

You can use and

## IBW Calculations

For females:

For males:

1. Calculate the IBW for the following patients (both for a male and for a female) with the given heights:
2. 180 cm

F:

M: 74 kg

1. 160 cm

F:

M: 56 kg

1. 155 cm

F: 47.5 kg

M: 51.5 kg

1. 1.4 m

(140 cm)

F: 34 kg

M : 38 kg

1. 1.82 m

(182 cm)

F: 71. 8 kg

M: 75.8 kg