1/   Express using scientific notation;
            a)   0.00045 m
            b)   4,273,100 g
            c)   0.010007 litres

2/   Convert;
            a)   3,270 grammes to kg
            b)   0.074 km to metres
            c)   4 x 10⁻⁴ litres to millilitres
            d)   340 milligrammes to grammes

3/   A box has dimensions 34 cm by 173 cm by 94 cm.
            a)   find it's volume in cm³.
            b)   convert the dimensions of the box into metres
            c)   find the volume of the box in m³.

4/   A solid steel box has dimensions 14 cm by 8 cm by 39 cm and
        mass of 34.3 kg.
            a)   find the volume of the box in m³.
            b)   find the density of steel in kg m⁻³. (note density =
        mass / volume)

5/   A pole vaulter climbs 6m in 2.2s at constant acceleration. His final
        velocity is 0ms⁻¹. Calculate his take off velocity and deceleration.
                [5.45ms-1, -2.48ms⁻²]

6/   A car changes to the fast lane on the M50 and accelerates smoothly
        from 20m/s (about 45mph) to 35m/s (about 79mph) in 250m. How
        long does this take? Calculate the acceleration.
                [9.1s , 1.65m/s²]

7/   A car starts from rest and accelerates uniformly for 15s to a
        velocity of 12m/s. Show that the average acceleration of the car is
        0.8m/s². How far does the car travel in the 15s?

8/   A ball dropped from a tower strikes the ground in 3s. Find the
        speed with which the ball strikes the ground and the height of the
        tower