1. Express 100 : 4 : 36 in its simplest form.

   Answer: _____ : _____ : _____ [2]

2. Simplify $\frac{3}{4} : \frac{5}{6}$ to the lowest term.

   Answer: _____ : _____ [2]

3. Express the following comparisons as ratios in the simplest form.
   (a) 6 km to 400 m

   Answer: (a) _____ : _____ [2]

   (b) 20 seconds to 2 minutes

   Answer: (b) _____ : _____ [2]

4. Alan and Ben agree to share their expenses in the ratio 3 : 2.
   (a) The rent on their flat is $400. How much does Alan pay?

   Answer: (a) $ __________ [2]

   (b) Alan’s share of the shopping bill is $17.40.
       (i) How much does Ben pay?

   Answer: (b)(i) $ __________ [2]
(ii) What is the total shopping bill?

Answer: (b)(ii) $ \underline{\hspace{2cm}} \ [2]

5. Express 912 cm/min in m/s.

Answer: \underline{\hspace{1cm}} \text{m/s} \ [2]

6. Sound travels at a uniform speed of 330 m/s through air. Calculate
   (a) the distance, in km, travelled by sound through air in 6 minutes,

Answer: (a) \underline{\hspace{2cm}} \text{km} \ [2]
   (b) the time taken, in seconds, for sound to travel 3.3 km through air.

Answer: (b) \underline{\hspace{2cm}} \text{s} \ [2]