Converting into a Percentage

1. To change a fraction into a percentage, we divide the fraction and multiply by 100.

   (a) $\frac{25}{40} = 25 \div 40 \times 100 =$ _____

   (b) $\frac{13}{50}$ (c) $\frac{24}{40}$ (d) $\frac{47}{60}$ (e) $\frac{34.5}{50}$ (f) $\frac{9}{40}$ (g) $\frac{17}{30}$

2. To convert a decimal into a percentage, multiply it by 100.

   (a) $0.35 = 0.35 \times 100 =$ _____

   (b) 0.27   (c) 0.49   (d) 1.24   (e) 0.325   (f) 0.08   (g) 0.015

3. John spends £350 of his monthly wage on rent.
   His net pay is £1150.
   What percentage of his wage does John spend on rent?

4. Jennifer scores 32 out of 40 on her Physics test and 49 out of 60 in her Maths test.
   Which test did Jennifer do better in?
   Explain your answer.

5. An Art class has 18 pupils. Only 14 pupils handed their homework in on time.
   (a) What percentage of pupils handed their homework in on time?
   (b) What percentage of pupils did not?

6. The Ring-Tailed Lemur's tail is longer than the rest of its body.
   An average Lemur is 43 inches long with a tail length of 25 inches.
   What percentage length of the Lemur is the tail?

7. Darren's PC cost £1200. His graphics card cost £480.
   What is the value of his graphics card as a percentage of the total cost of his PC?

8. A house was bought for £62000 and sold later for £85000.
   (a) Calculate the profit for this house.
   (b) What is the profit as a percentage of the original price?

9. The Mann family are landscaping their garden.
   The garden is 180m^2. They want a 40m^2 patio and the rest to be grass.
   (a) How much of the garden would be grass?
   (b) What percentage of the garden is going to be grass?

10. A car was bought for £21000 and later sold for £6100.
    What was the percentage loss on the car?

11. Douglas bought a vase at a car boot sale for £5.
    He later found out it was very valuable and sold it for £2500.
    (a) What was the profit on the vase as a percentage of the original price?
    (b) Can you explain why this answer makes sense?

12. Sam is unwell and lost some weight.
    Sam originally weighed 82.3kg. He now weighs 74.6kg.
    (a) What was his weight loss as a percentage of his original weight?
    (b) If he loses more than 10% of his body weight he needs to go to hospital.
       Do you think Sam should go to hospital?