Fraction word problems

1. There are 24 hours in a day and scientists tell us that we should sleep for \( \frac{3}{8} \) of the day. How much time should we spend sleeping?

2. The National History Museum has collected 125 dinosaurs. George has collected \( \frac{3}{5} \) of this amount. How many dinosaurs has George collected?

3. Mr Murrin is 160cm tall and his brother Tom is \( \frac{7}{8} \) as tall as him. How tall is Tom?

4. The weather forecaster says that it is \( 20^\circ C \) in London but only \( \frac{7}{10} \) as hot in New York. How hot is it in New York?

5. Skateboards cost £36 each in my local store. The shopkeeper says if I buy one I can buy another for only \( \frac{7}{9} \) of the normal price. How much would a second skateboard cost?
6. Billy collected 256 conkers but lost \( \frac{3}{4} \) of them on his way to school through a hole in his bag. When he arrived at school how many conkers did Billy have left?

7. There are 25 pupils in the class, \( \frac{3}{5} \) of the pupils support Chelsea and the remainder support Arsenal. How many pupils support Arsenal?

8. The local shop normally sells Mars bars for 40 pence. The shopkeeper says I can buy them for \( \frac{1}{4} \) less than the normal price. How much can I buy a Mars bar for?

9. Last year, Mr Murrin weighed 60 kg. This year he weighs \( \frac{2}{5} \) more. How much does Mr Murrin weigh this year?

10. McDonalds sell milkshakes in two sizes. A small milkshake contains 300ml and a large milkshake contains \( \frac{2}{3} \) more.
   
   (i) How much does a large milkshake contain?
   
   (ii) If Mr Murrin drinks \( \frac{2}{3} \) of a small milkshake and Miss Hoyne \( \frac{1}{2} \) of a large milkshake who drinks the most?