HOME EXERCISE 2

Set out carefully all appropriate working.

Do **not** use a calculator in questions 1, 2, 3 or 4.
Use a calculator in questions 5 and 6.

1. Evaluate: $\dfrac{36 \times 200}{23 + 17}$ (2)

2. Evaluate: $0 \cdot 326 \times 400$ (1)

3. To make a particular shade of green paint Peter the painter mixes blue and yellow paint in the ratio 3 : 2.

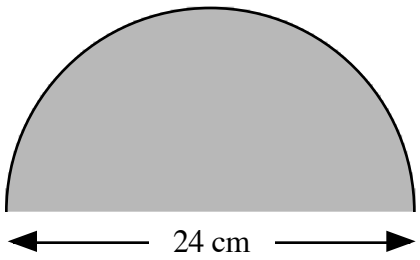
   (a) Calculate the amount of blue paint required to make 40 litres of green paint. (2)

   (b) Peter has 20 litres of blue paint and 14 litres of yellow paint.
   Calculate the greatest amount of green paint that Peter can make. (3)

4. A snail moves at an average speed of 8 centimetres per minute.

   (a) Calculate the distance the snail travels in 2 minutes 30 seconds. (2)

   (b) Calculate the time it takes for the snail to travel 4 **metres**. (3)

5. 

   Calcuate the area of the semicircle. (4)

6. Evaluate: $\dfrac{4 \cdot 357 \times 10^{18}}{6 \cdot 085 \times 10^{12}}$ (3)

   Write your answer in **scientific notation** and correct to **3 significant figures**.

Total 20 marks