HOME EXERCISE 1

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.

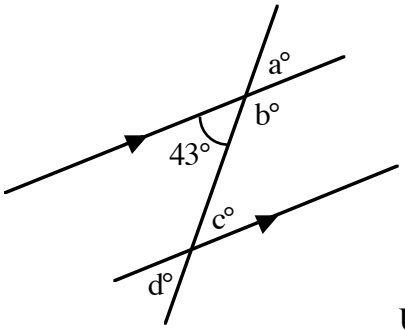
1. Evaluate: $4\frac{7}{8} \div 2\frac{2}{3}$ (2)

2. Evaluate: $14 \times 4 \times 3$ (2)

3. The normal price of a radio is £28.
In a sale the price of the radio is reduced by 25%.

Calculate the sale price of the radio. (3)

4. The diagram shows two parallel lines as indicated.



complementary angle
supplementary angle
corresponding angle
alternate angle
vertically opposite angle
angle sum in a triangle

Use the 43° angle to find the values of a, b, c and d. (2)
Give a reason with each answer from the list above. (4)

5. A train travelled 364 kilometres.
It left on its journey at 11 50 am and arrived at 3 05 pm.

Calculate the average speed of the train in kilometres per hour. (4)

6. If $A = 2 \cdot 654 \times 10^{15}$ and $B = 8 \cdot 092 \times 10^{7}$ calculate the value of AB. (3)
Write your answer in **scientific notation** and correct to **3 significant figures**.

Total 20 marks