Examiner's

1

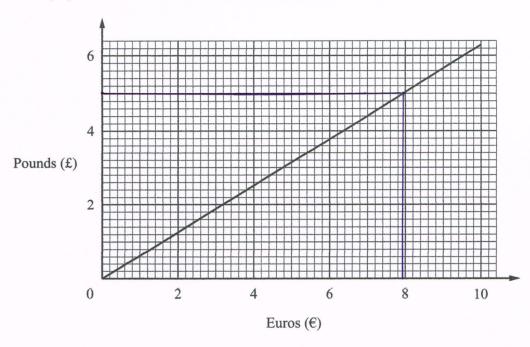
$$\frac{5}{98} = 0.051$$

Write in order of size, smallest first,

$$\frac{5}{98}$$
, 0.049, 5%.

Answer $0.049 < 5\% < \frac{5}{98}$ [2]

The graph below can be used to convert between euros (\mathcal{E}) and pounds (\mathfrak{L}) .



(a) Change £5 into euros.

Answer (a)
$$\in$$
 7.85 [1]

(b) Change €90 into pounds.

3 The top speed of a car is 54 metres per second. Change this speed into kilometres per hour. 54 m/s = 54 × 3600 m/h = 194400 m/h

4 $\mathbf{a} = \begin{pmatrix} 2 \\ -3 \end{pmatrix}$ and $\mathbf{b} = \begin{pmatrix} 5 \\ -1 \end{pmatrix}$. Find $3\mathbf{a} - 2\mathbf{b}$. $3\binom{2}{-3}-2\binom{5}{-1}=\binom{6}{-9}-\binom{10}{-2}$ $=\begin{pmatrix}6-10\\-9-(-2)\end{pmatrix}=\begin{pmatrix}-4\\-7\end{pmatrix}$