$$\begin{array}{ccc} \mathbf{1.} & \mathbf{a} = \begin{pmatrix} 3 \\ 5 \end{pmatrix} & \mathbf{b} = \begin{pmatrix} 4 \\ 1 \end{pmatrix} \end{array}$$

Complete these column vectors

(i) 
$$2\mathbf{a} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$
 (ii)  $3\mathbf{b} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$ 

$$\begin{array}{c} 2 \\ \mathbf{c} = \begin{pmatrix} 2 \\ 1 \end{pmatrix} \qquad \qquad \mathbf{d} = \begin{pmatrix} 1 \\ -3 \end{pmatrix}$$

Complete these column vectors

(i) 
$$3\mathbf{c} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$
 (ii)  $4\mathbf{d} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$ 

Complete these column vectors

(i) 
$$3\mathbf{p} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$$
 (ii)  $4\mathbf{q} = \begin{pmatrix} \dots \\ \dots \end{pmatrix}$ 

## Answers

1. (i) 6 (ii) 12 10 3 2. (i) 6 (ii) 4 3 -123. (i) 15 (ii) -12 6 16