Reflection

- Reflecting points and shapes in a variety of mirror lines
- Reflecting shapes on a coordinate grid

Keywords

You should know

explanation 1

1 Copy these shapes onto squared paper and then reflect each shape in the black mirror line.

a

b

c

d

e

f

g

h

i

j

k

l
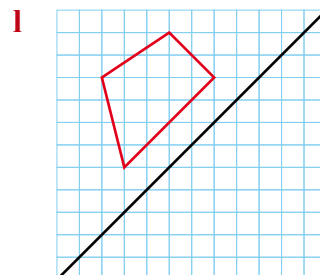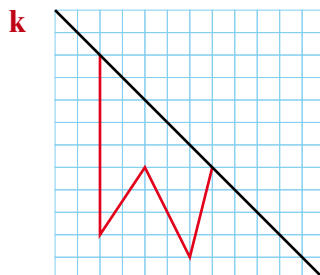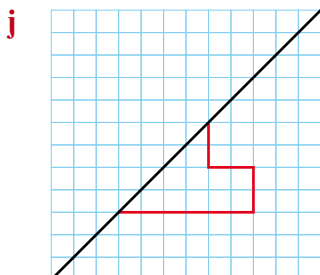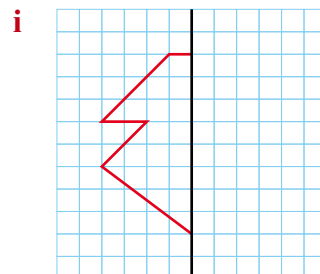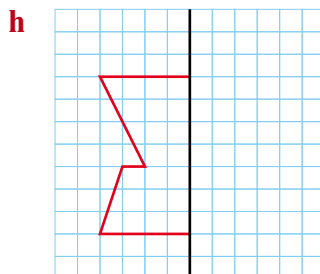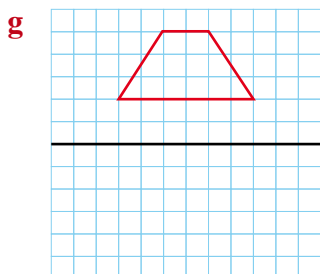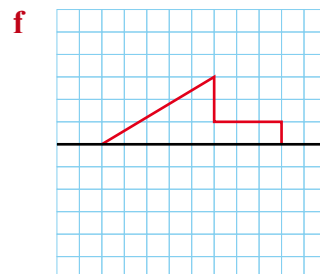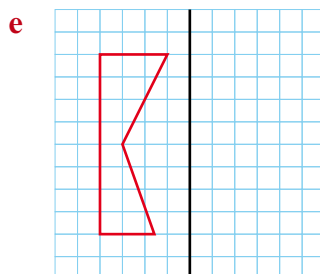
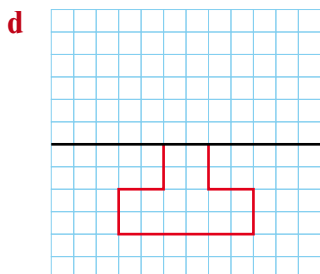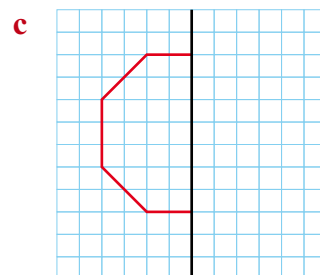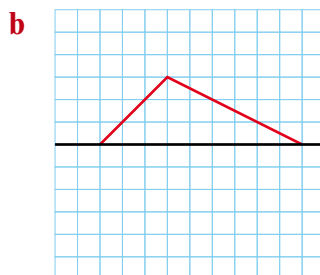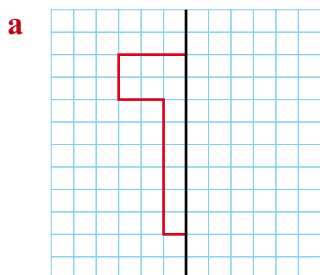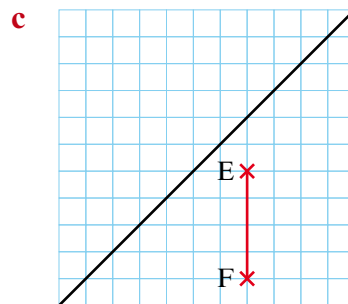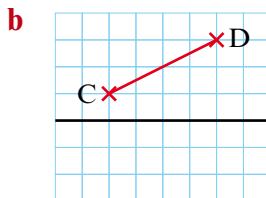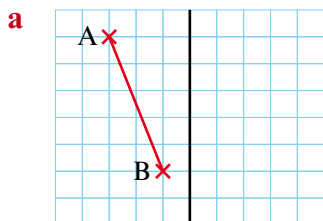**explanation 2**

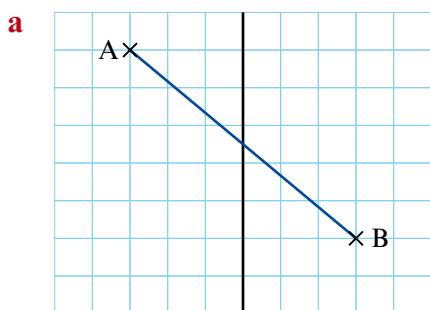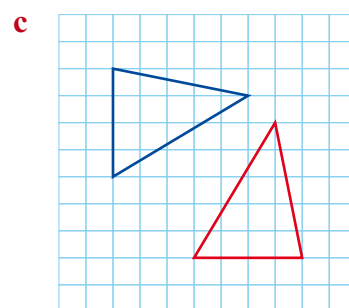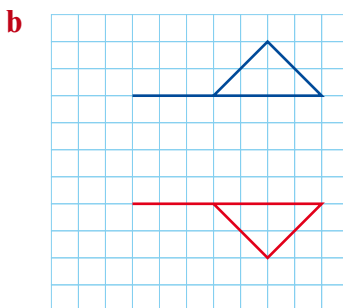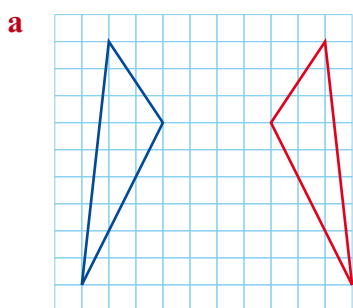**2** Copy these diagrams onto squared paper. Reflect each labelled point and each labelled line in the black mirror line. Label the end points of each reflection.
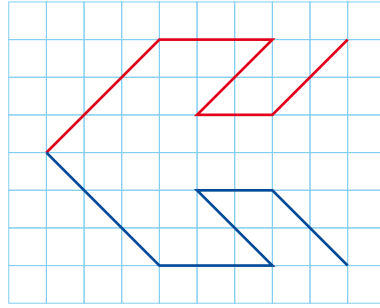
a

b

c

3 Copy the diagrams and reflect each labelled line in the black mirror line.

Label the end points of each reflection.

a

b
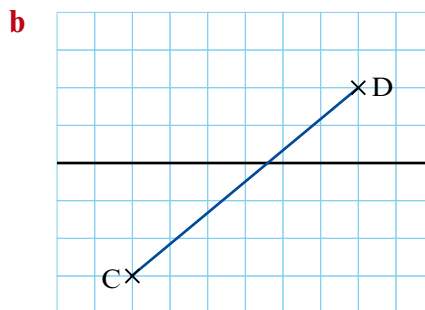
4 Copy each diagram onto squared paper and draw in its missing mirror line.

a

b

c

5 Copy each diagram onto squared paper and draw its missing mirror line.
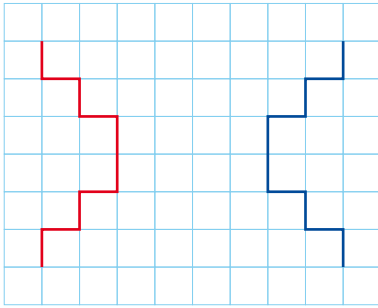
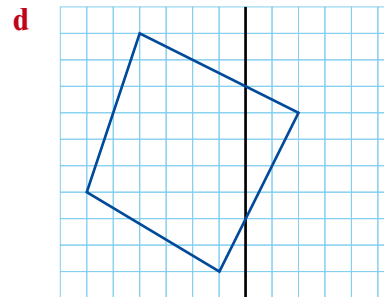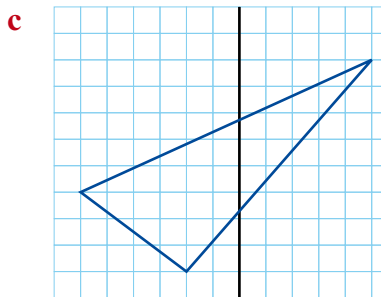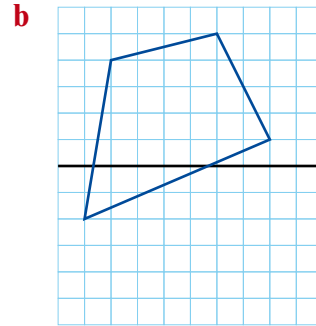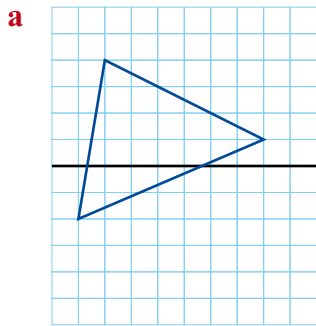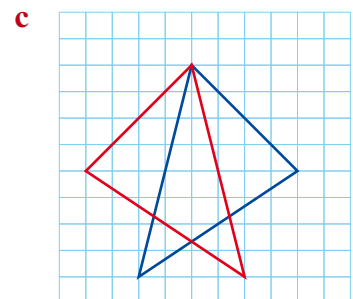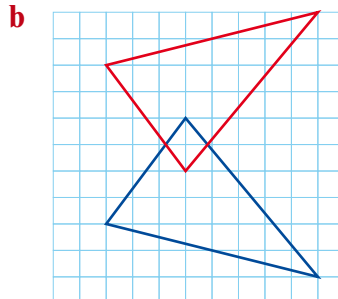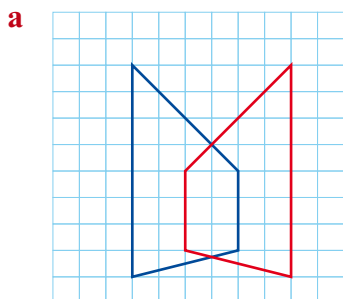**6** Copy the diagrams and reflect each shape in the black mirror line.

a

b

c

d

7 Copy these diagrams and draw in the missing mirror lines.

a

b

c

explanation 3

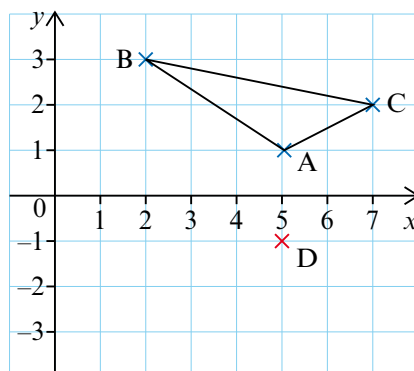**8** A(5, 1) is reflected in the *x*-axis to become D(5, −1).

   a Copy the diagram.

     Reflect B and C in the *x*-axis and label the images E and F.

   b Write down the coordinates of E and F.

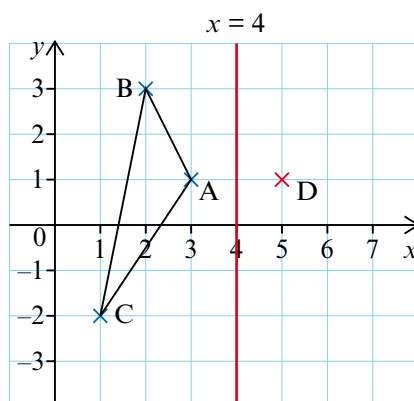   **c** Complete the triangle DEF.

9 A(3, 1) is reflected in the line *x* = 4 to become D(5, 1).

   a Copy the diagram.

     Reflect B and C in the line *x* = 4 and label the images E and F.

   b Write down the coordinates of E and F.

   c Complete the triangle DEF.

10 a Copy the diagram.

     Reflect A, B and C in the line *y* = −1 and label the images D, E and F.

   b Write down the coordinates of D, E and F.

   c Complete the triangle DEF.