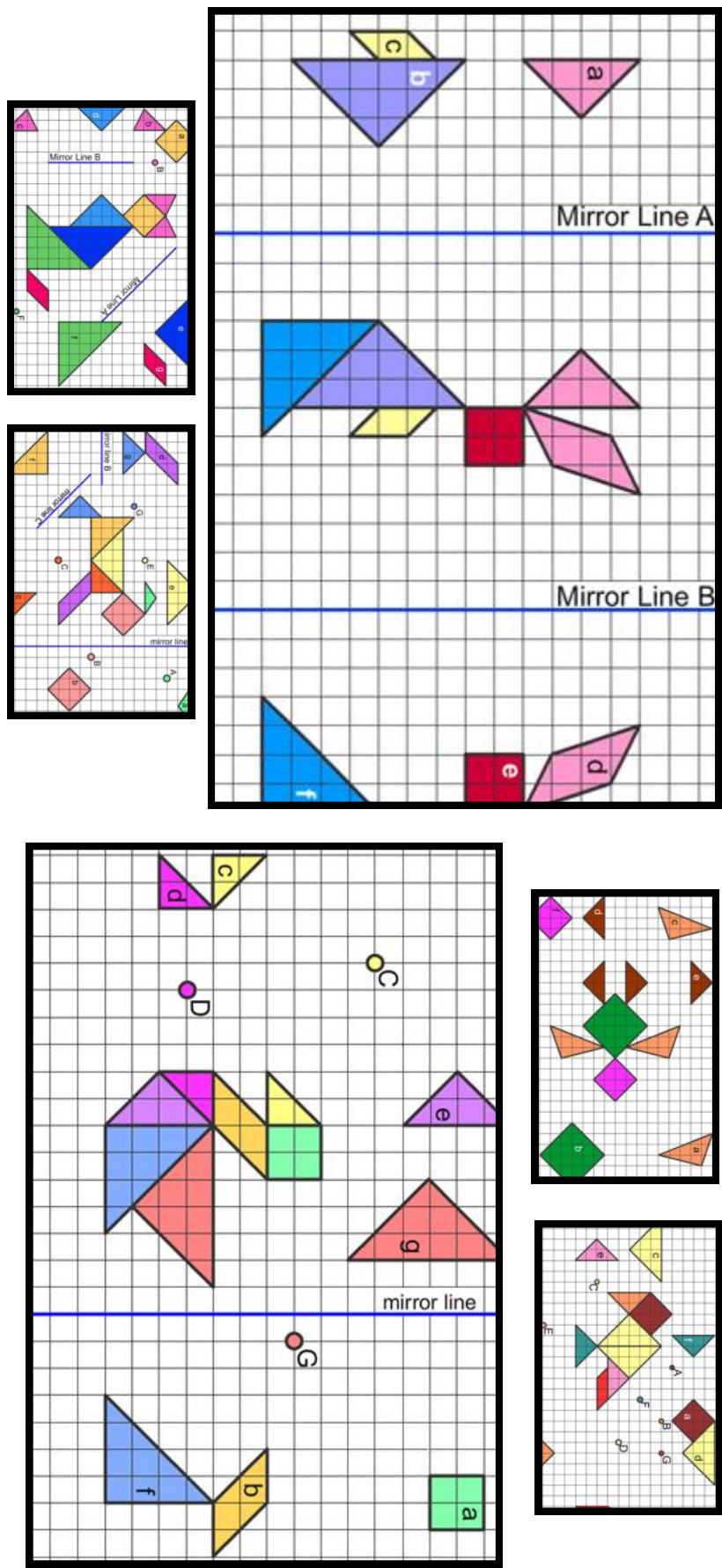


Mystery Picture Pack!



Transformations

Contents

1. Translations Mystery Picture

Suitable for younger students just learning translations and vectors

2. Reflections Mystery Pictures 1 & 2

Also suitable for younger students just starting to learn about reflections in a mirror line. The second version uses the co-ordinates axes and the line $y = -x$ as mirror lines.

3. Rotations Mystery Pictures 1 & 2

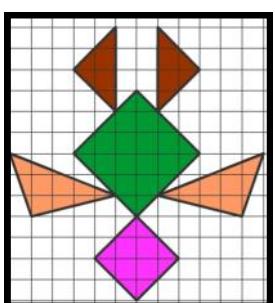
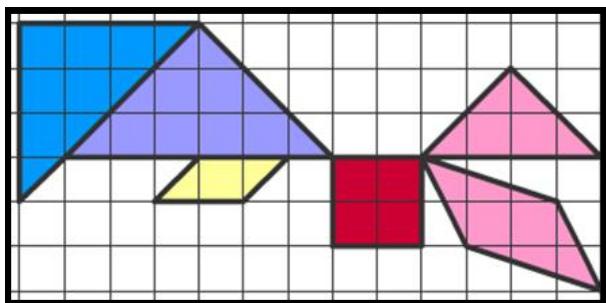
Students will need to be able to rotate 90 degrees and 180 degrees about a point. Most students will need tracing paper. The first version is on the co-ordinate plane and all rotations are about the origin.

4. Mixed Transformations Picture 1 & 2

These activities require students to use translations, reflections and rotations.

5. Combined Transformations Picture 1 & 2

These are the most difficult pictures to complete and require students to do multiple transformations to each object in order to find its place. The second picture takes place on the co-ordinate plane.



1. Translate shape
a 10 units left and
3 units down.

2. Translate shape
b 12 units left
and 4 units up.

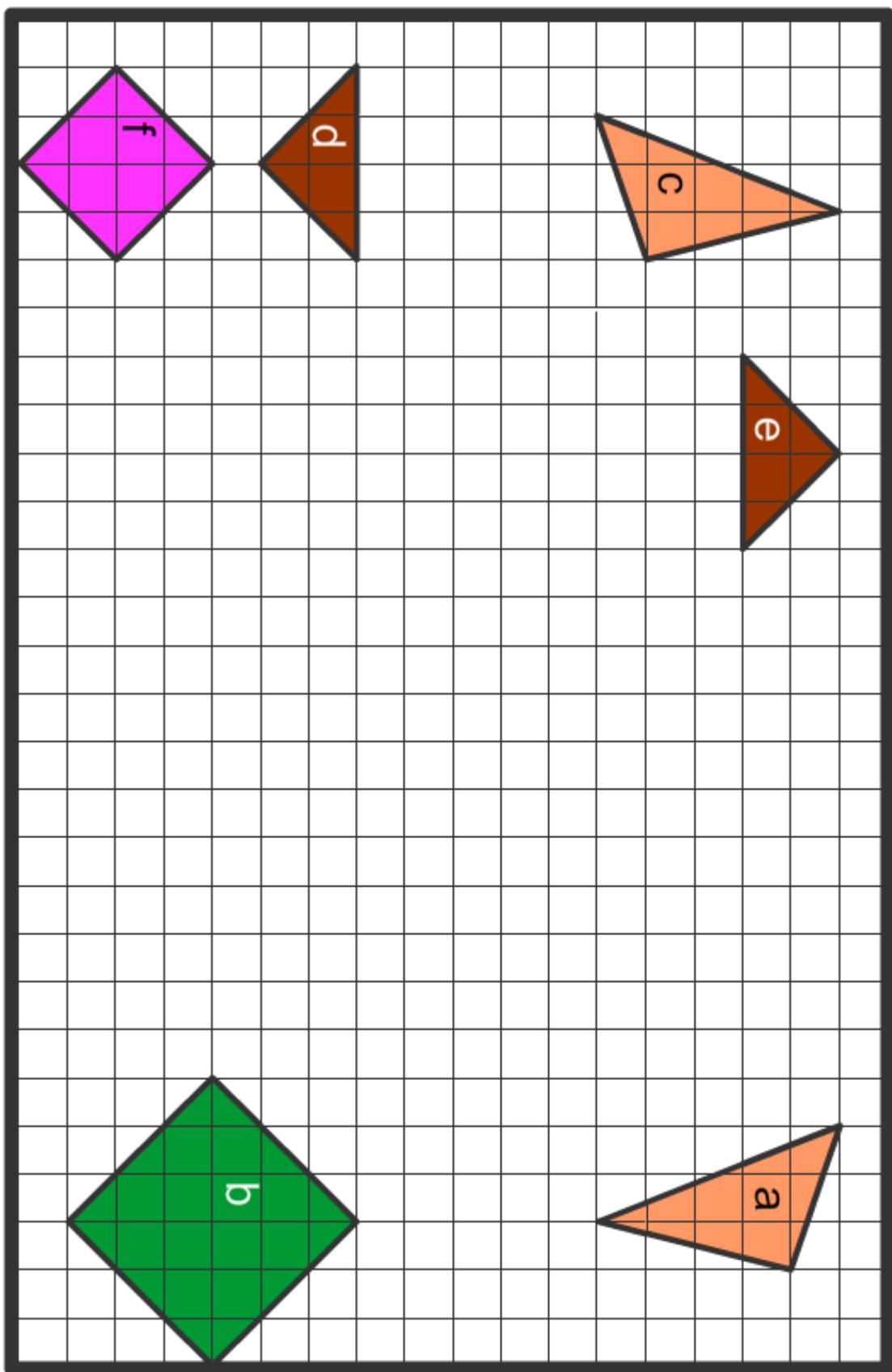
3. Translate shape
c 11 units right
and 10 units down.

4. Translate shape
d 6 units right.

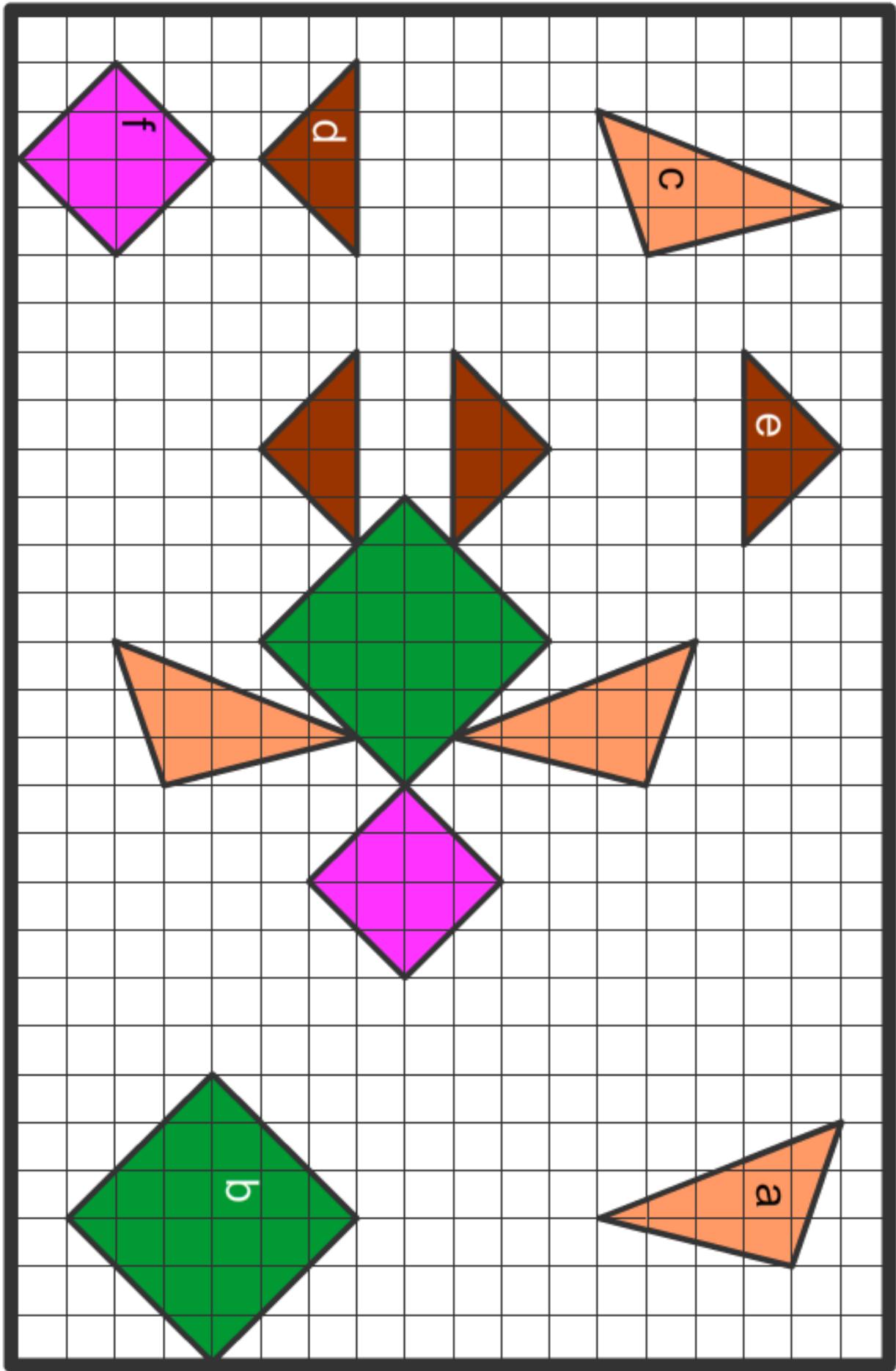
5. Translate shape
e 6 units down.

6. Translate shape
f 15 units right
and 6 units up.

translations mystery picture



answer



reflections mystery picture

Instructions

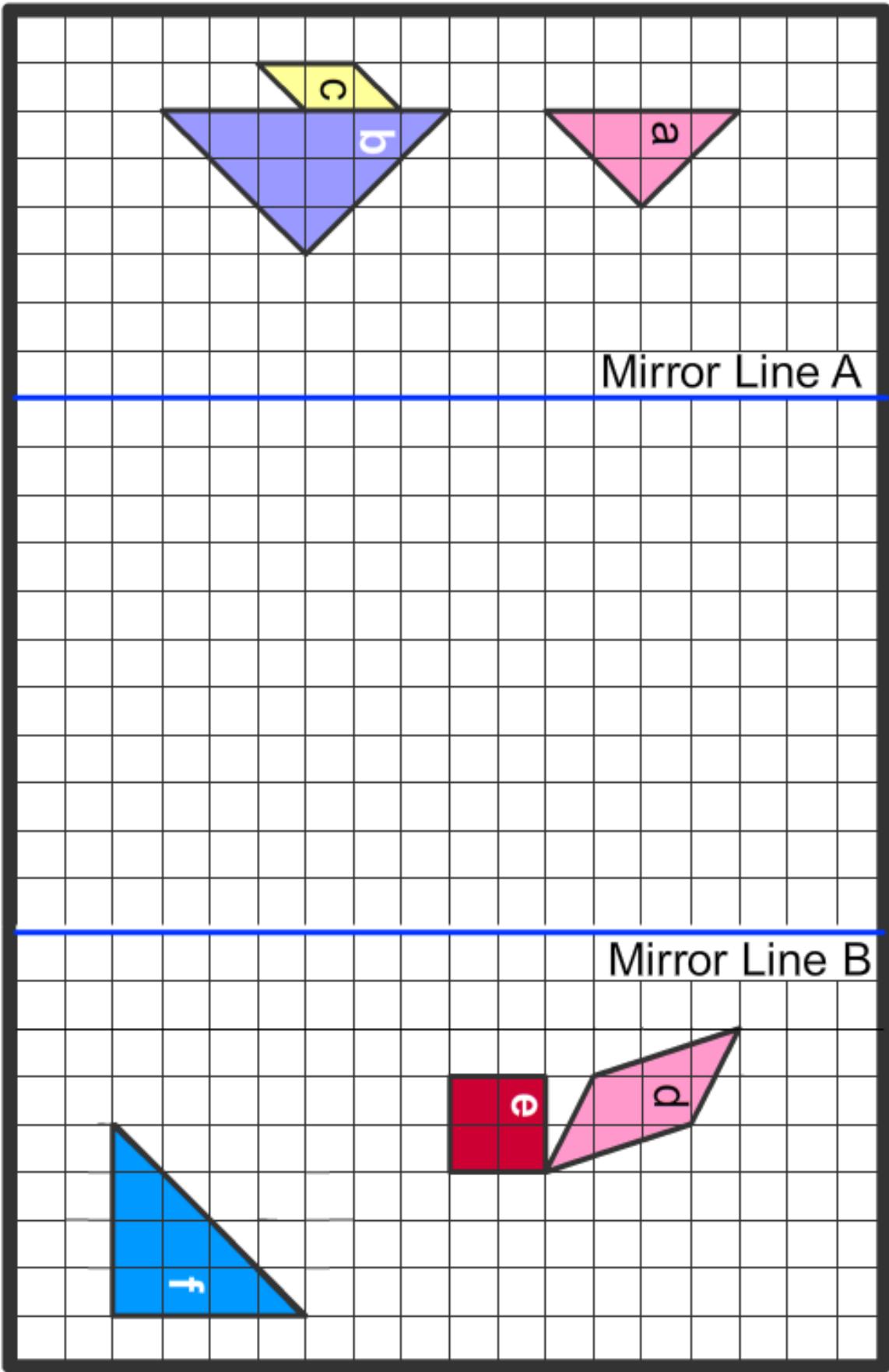
Reflect

shapes **a**, **b**
and **c** in

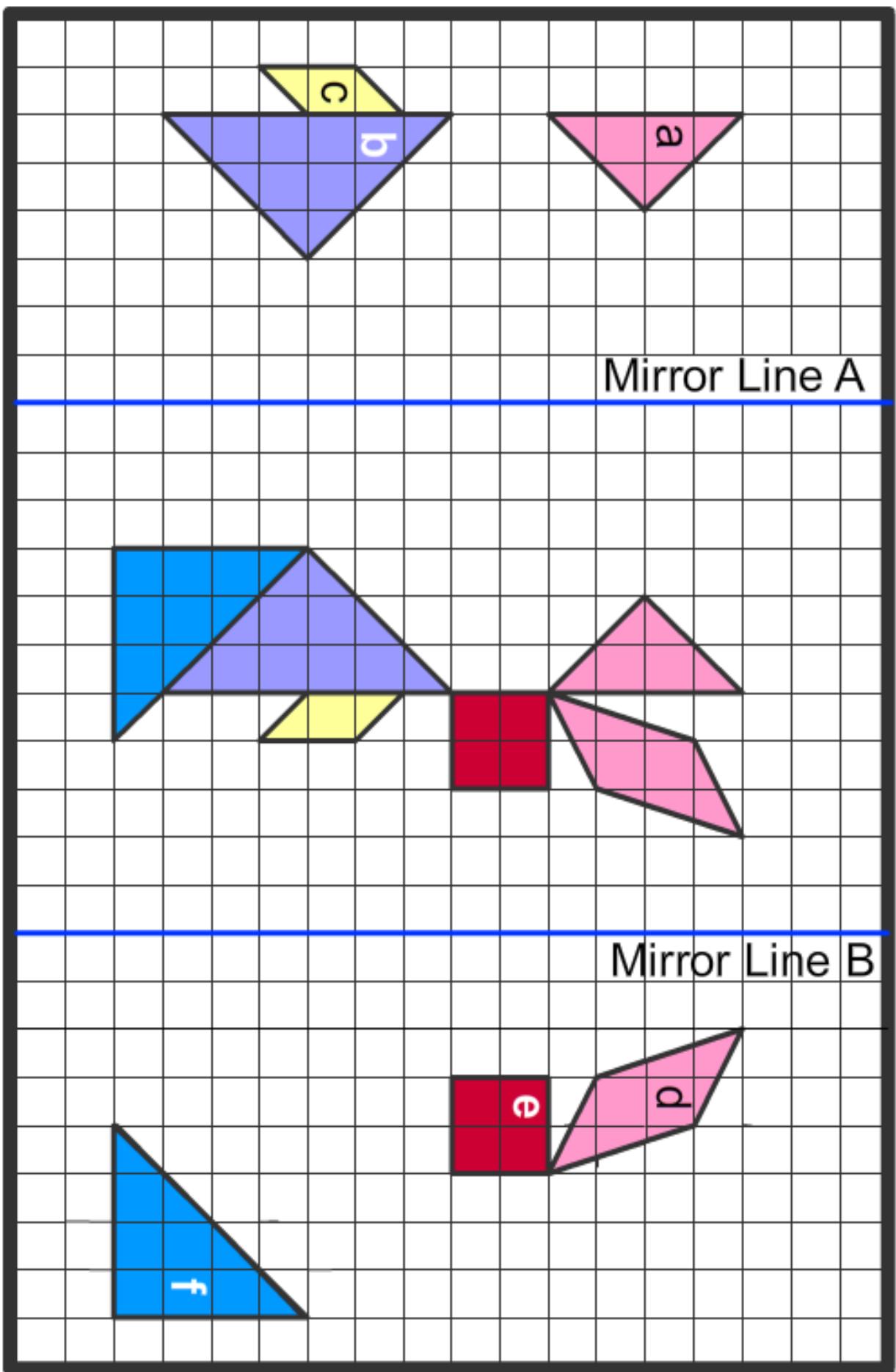
Mirror Line A

Mirror Line B

Reflect
shapes **d**, **e**
and **f** in



answer

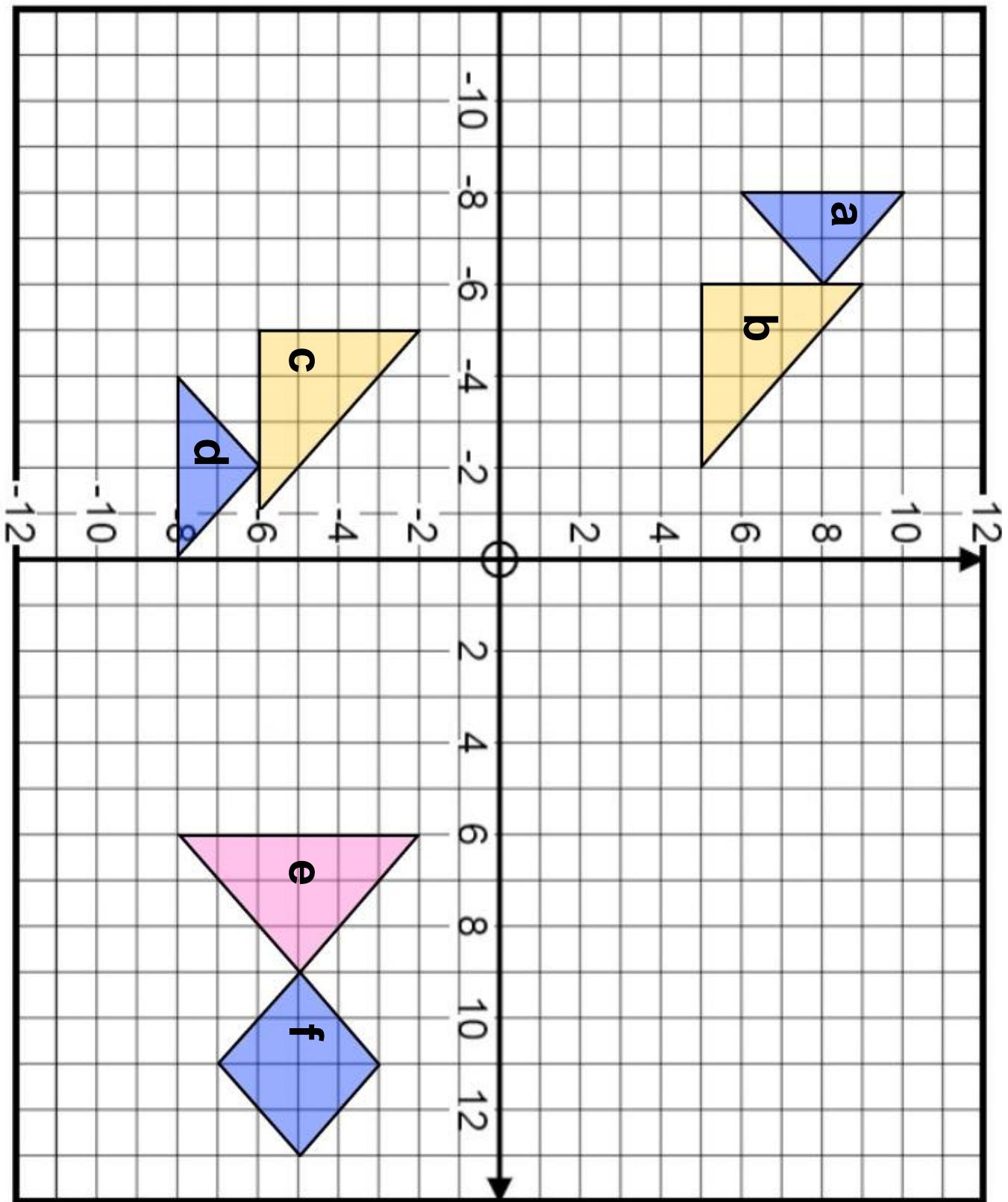


reflections

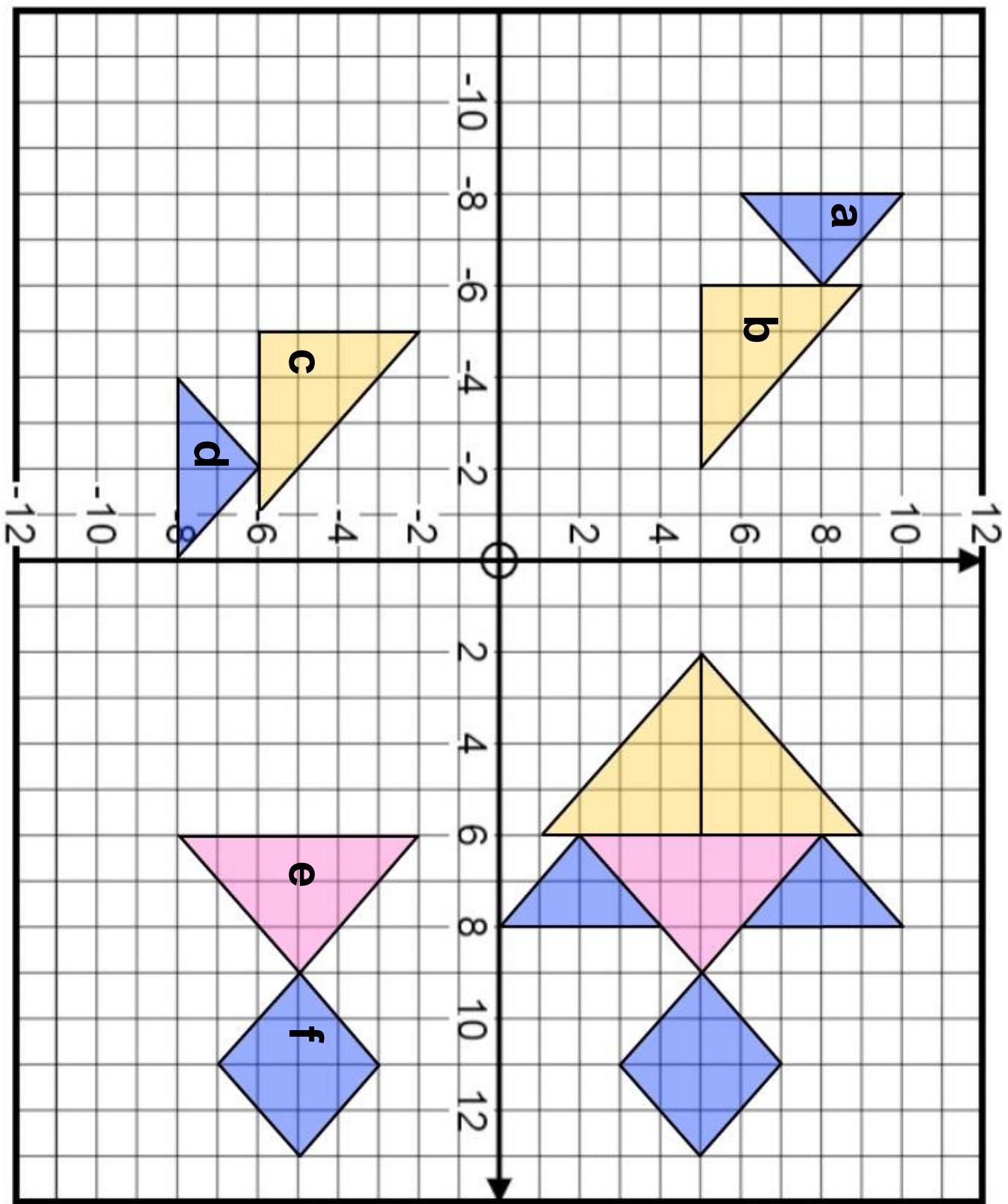
mystery picture 2

Instructions

1. Reflect shapes **a** and **b** in the **y** axis.
2. Reflection shapes **c** and **d** in the line $y = -x$
3. Reflect shapes **e** and **f** in the **x** axis.



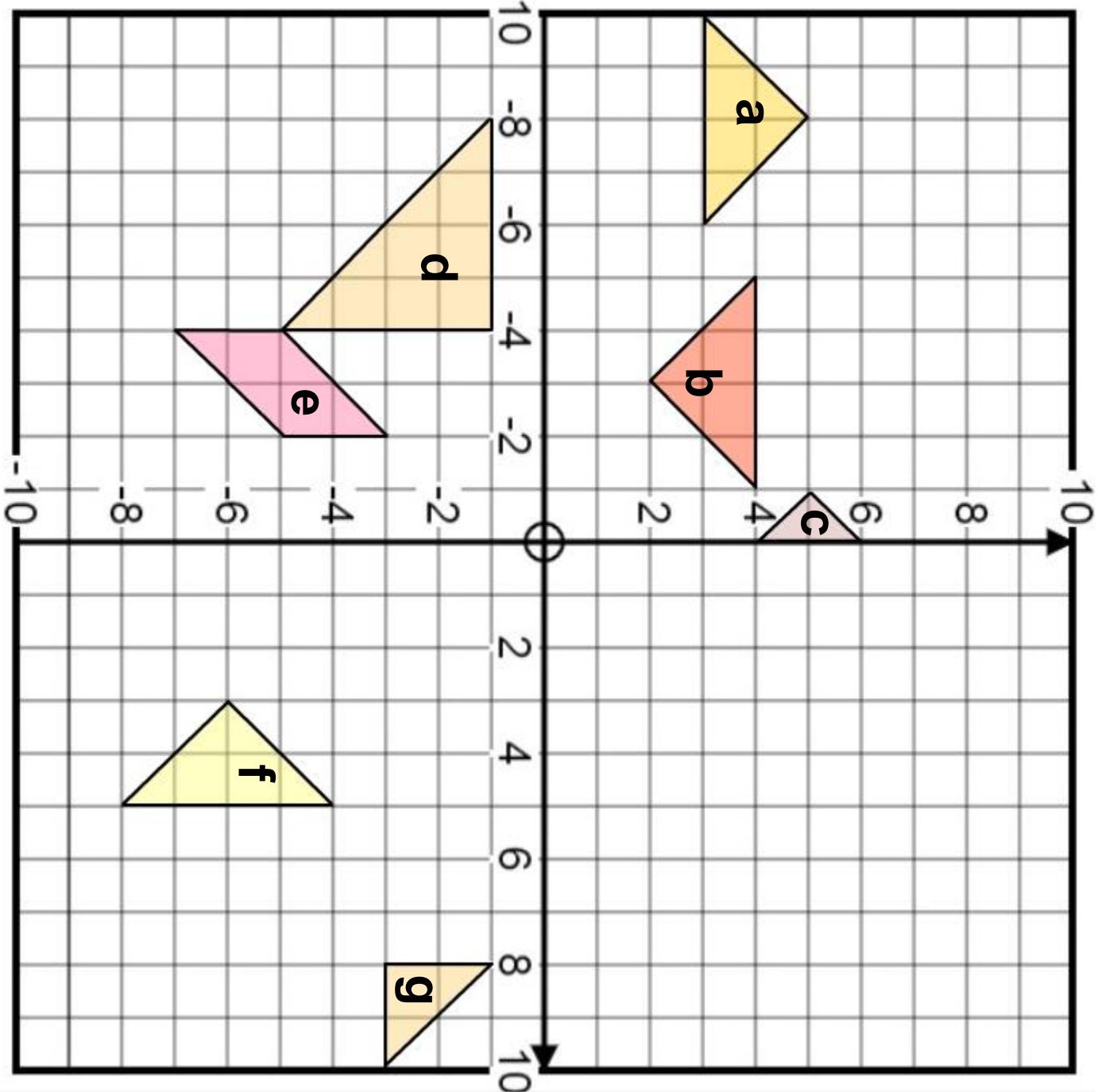
answer



rotations mystery picture 1

Instructions

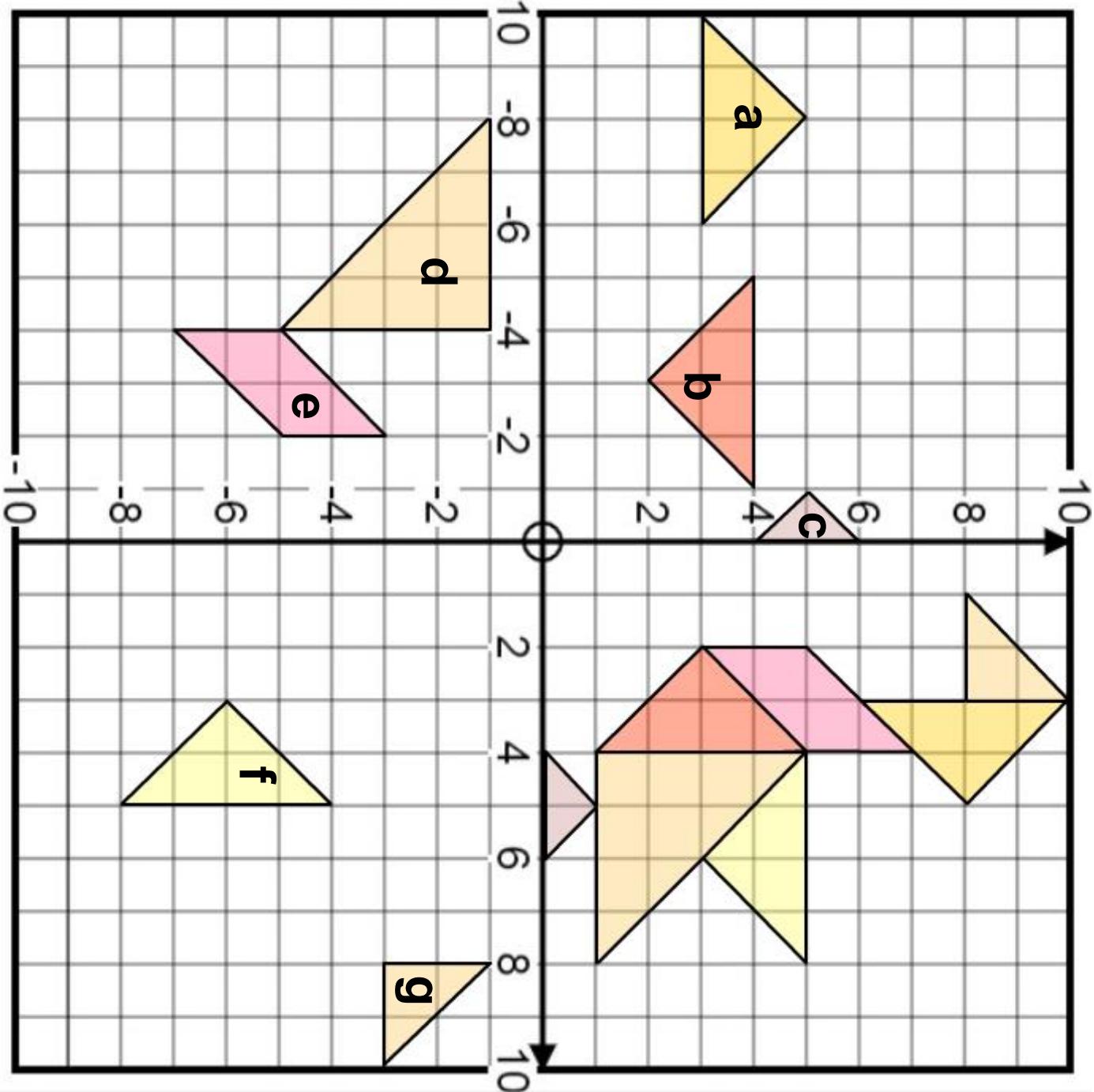
1. Rotate shapes **a** and **b** and **c** 90° clockwise about the origin.
2. Rotate shapes **d** and **e** 180° about the origin.
3. Rotate shapes **f** and **g** 90° counter-clockwise about the origin.



answer

Instructions

1. Rotate shapes **a** and **b** and **c** 90° clockwise about the origin.
2. Rotate shapes **d** and **e** 180° about the origin.
3. Rotate shapes **f** and **g** 90° counter-clockwise about the origin.



1. Rotate shape **a** 180° about point A.

2. Rotate shape **b** 90° clockwise about point B.

3. Rotate shape **c** 90° clockwise about point C.

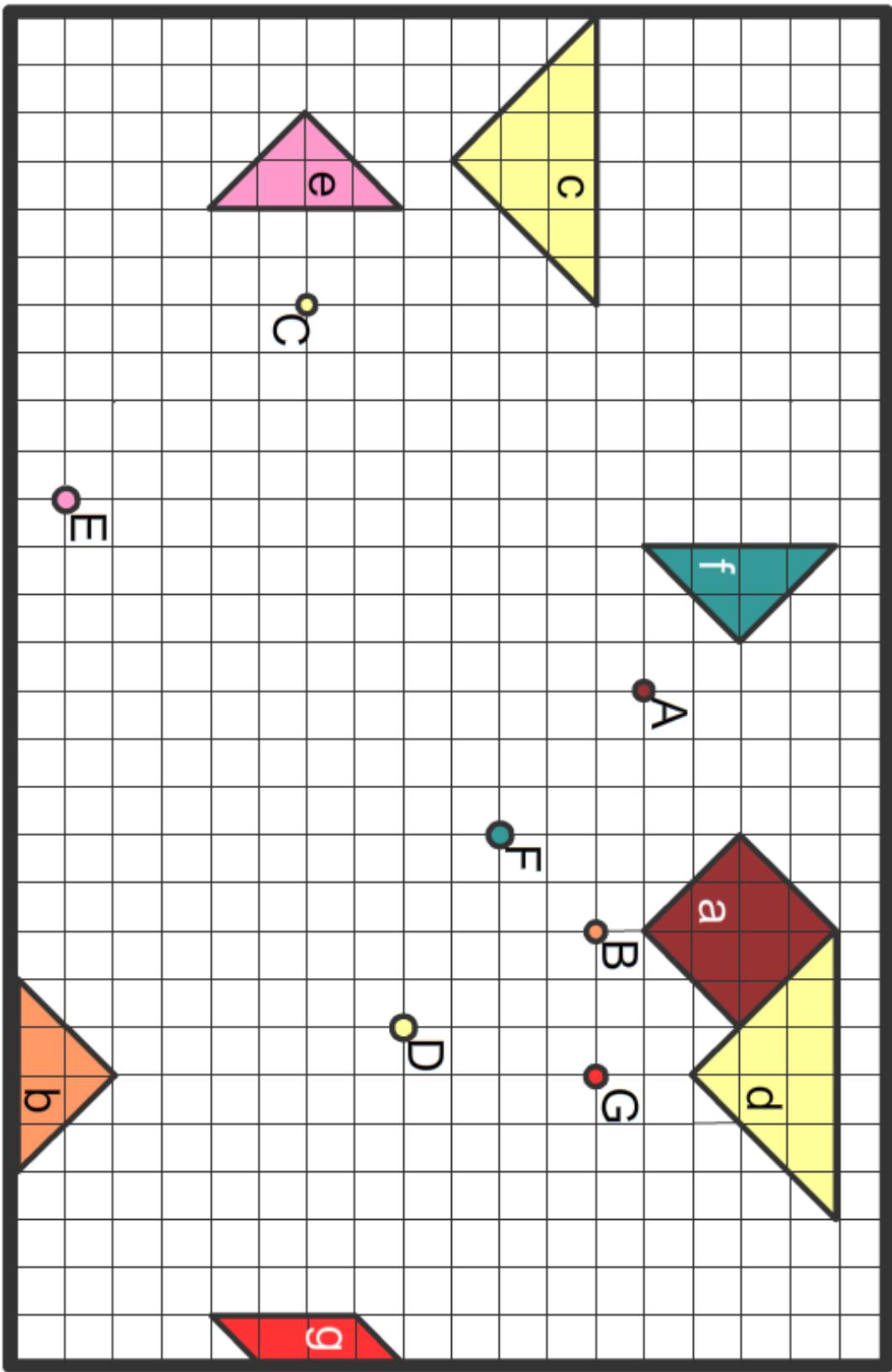
4. Rotate shape **d** 90° counter-clockwise about point D.

5. Rotate shape **e** 90° clockwise about point E.

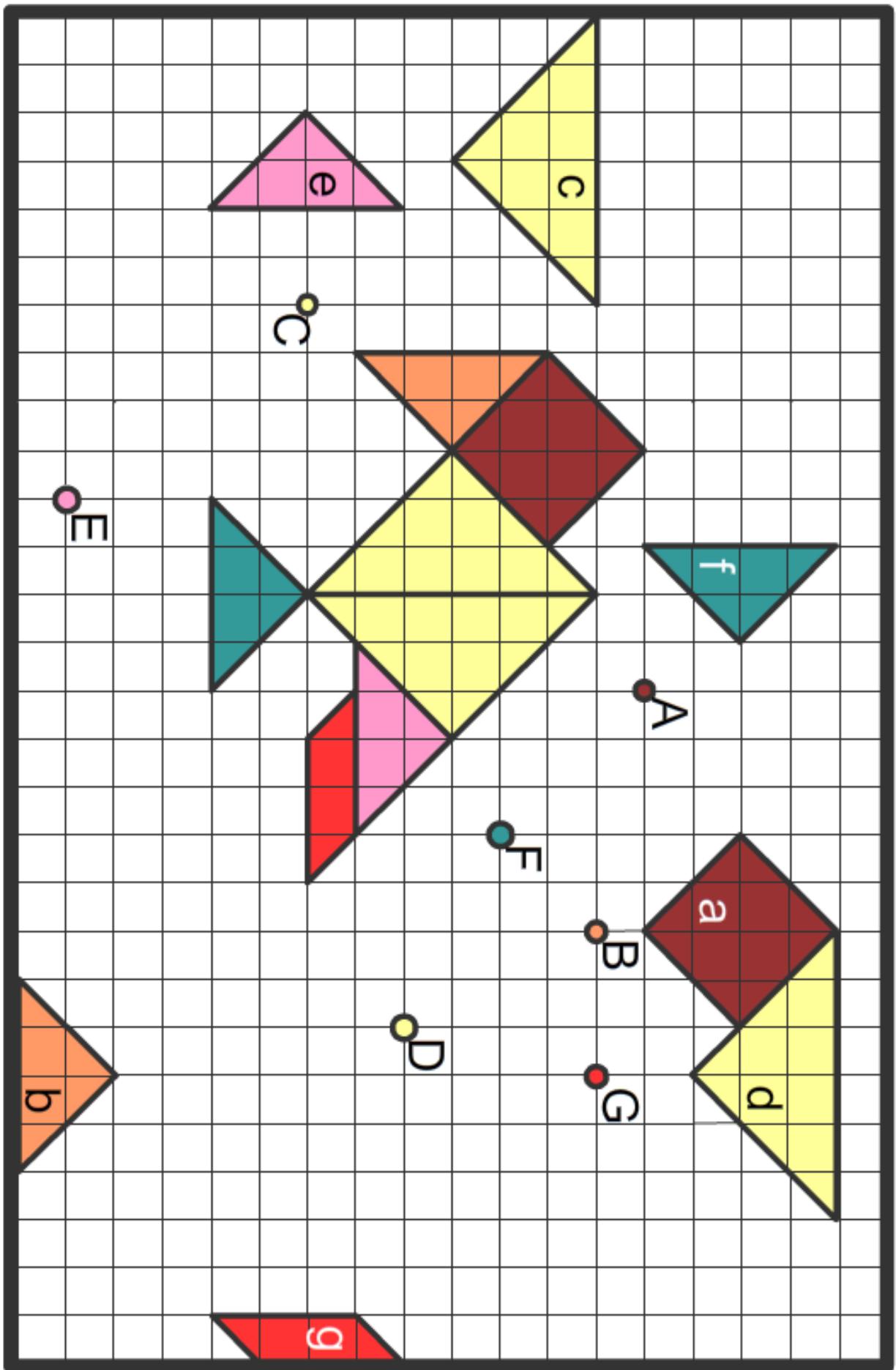
6. Rotate shape **f** 90° counter-clockwise about the point F.

7. Rotate shape **g** 90° clockwise about the point G.

rotations mystery picture 2



answer



1. Translate shape
a 13 units left and
6 units down.

2. Reflect shape **b** in
the mirror line.

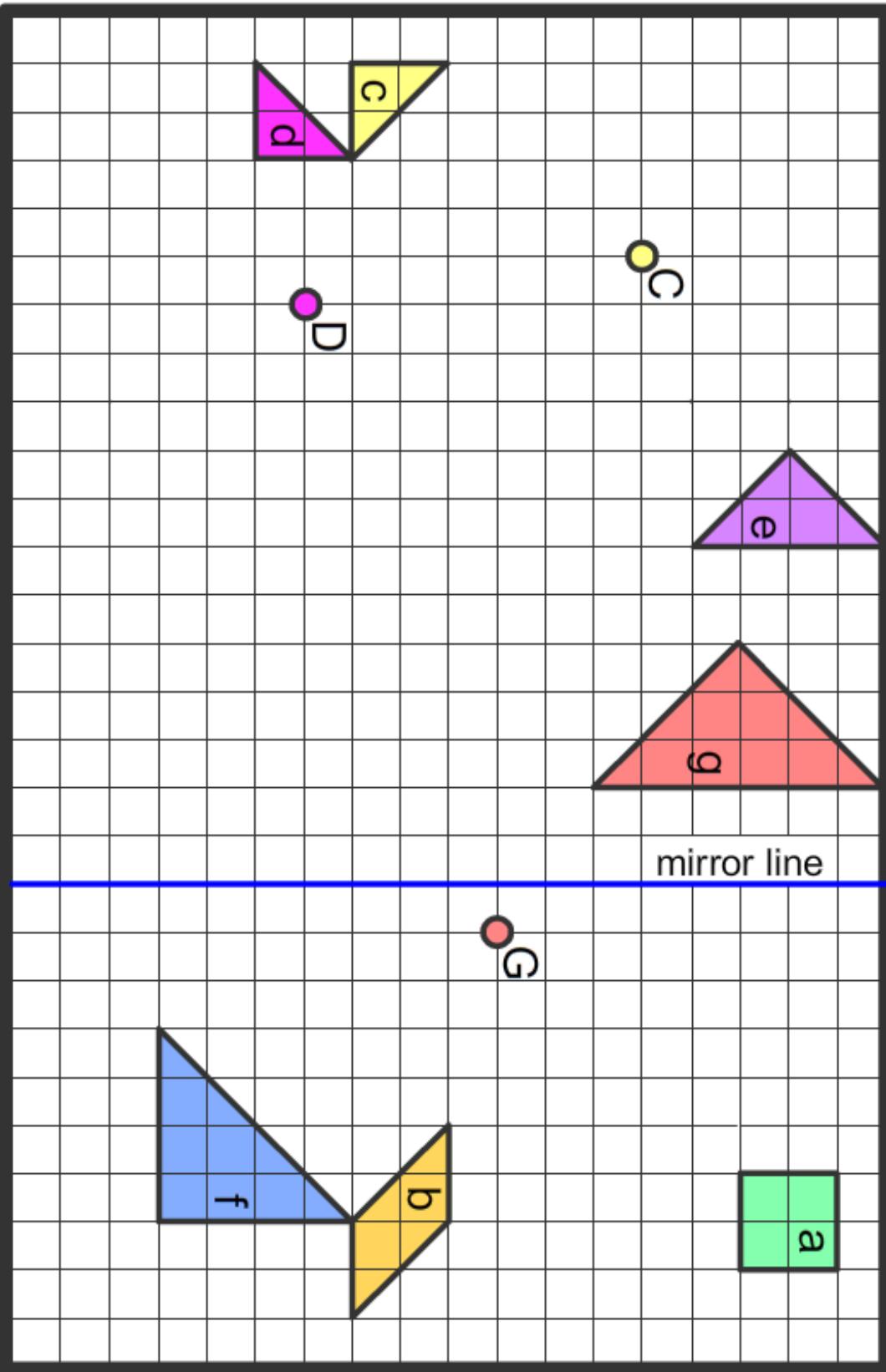
3. Rotate shape **c**
90° counter-
clockwise about
point C.

4. Rotate shape **d**
180° about point D.

5. Translate shape
e 11 units down.

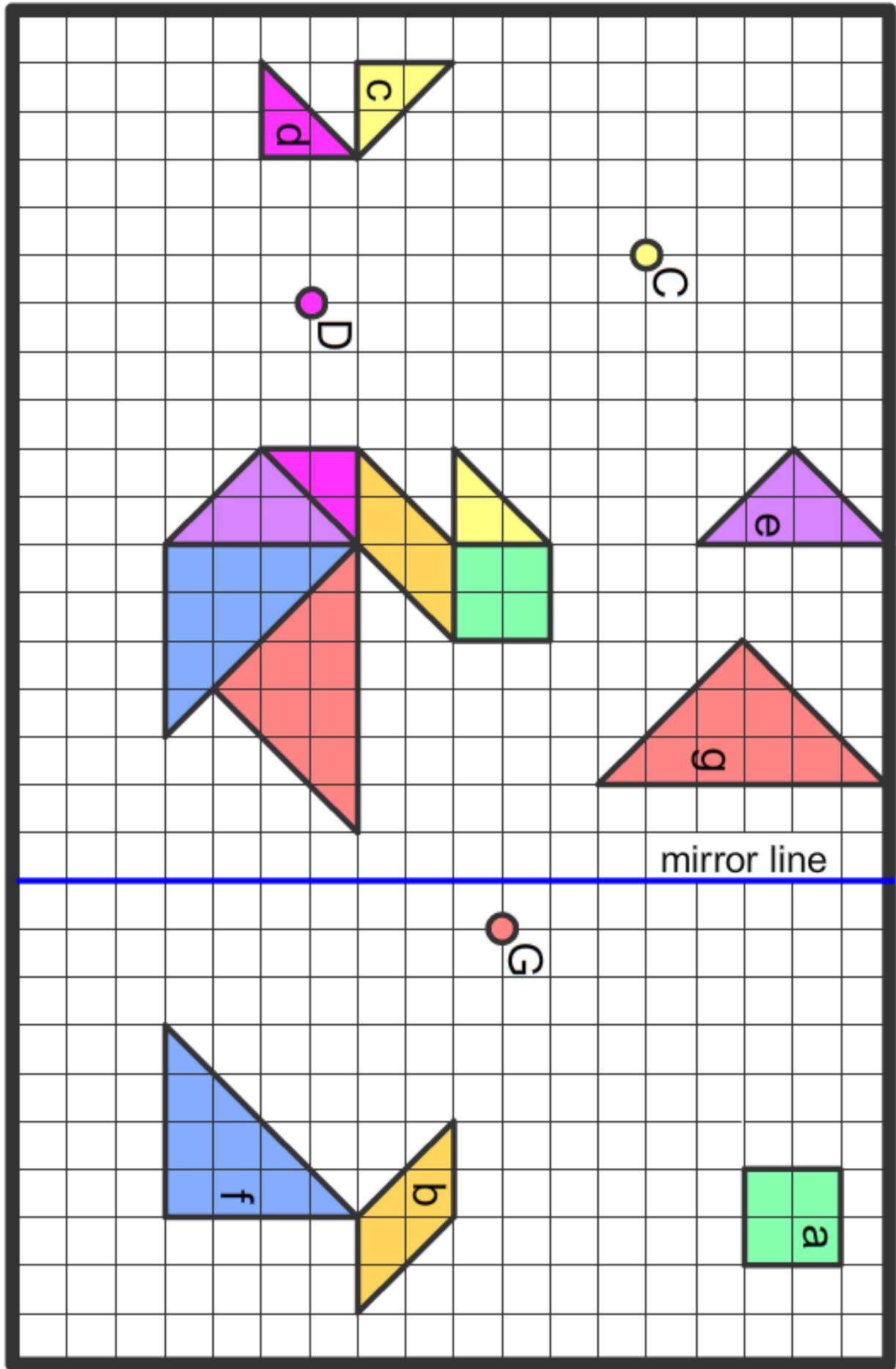
6. Reflect shape **f** in
the mirror line.

7. Rotate shape **g**
90° counter-
clockwise about
point G.



mixed mystery picture

answer



1. Translate shape **a**

7 units right and 3
units down.

2. Rotate shape **b**
180° about point B.

3. Translate shape **c**
10 units to the right
and 13 units up.

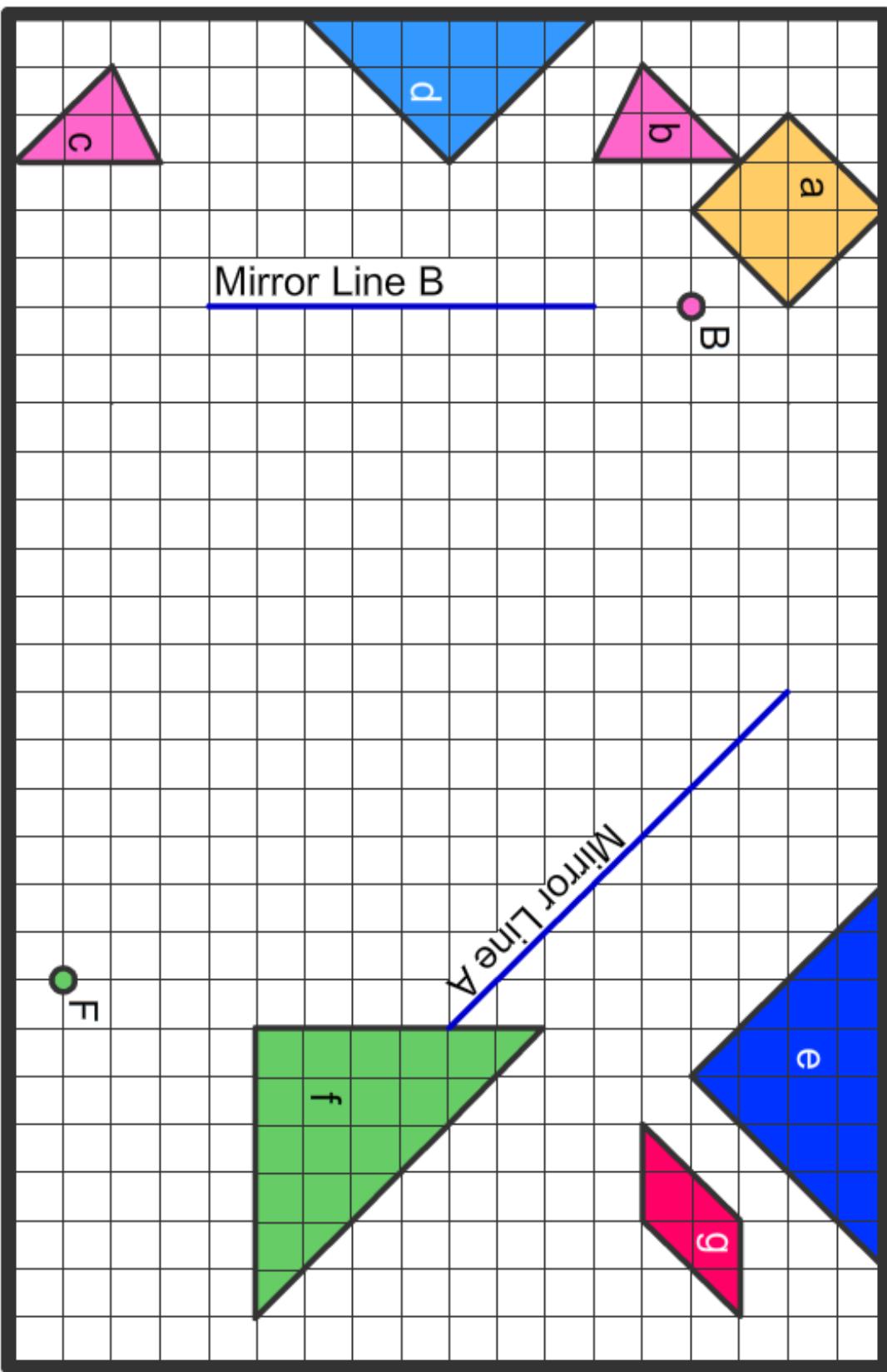
4. Reflect shape **d** in
the mirror line B.

5. Reflect shape **e** in
the mirror line A

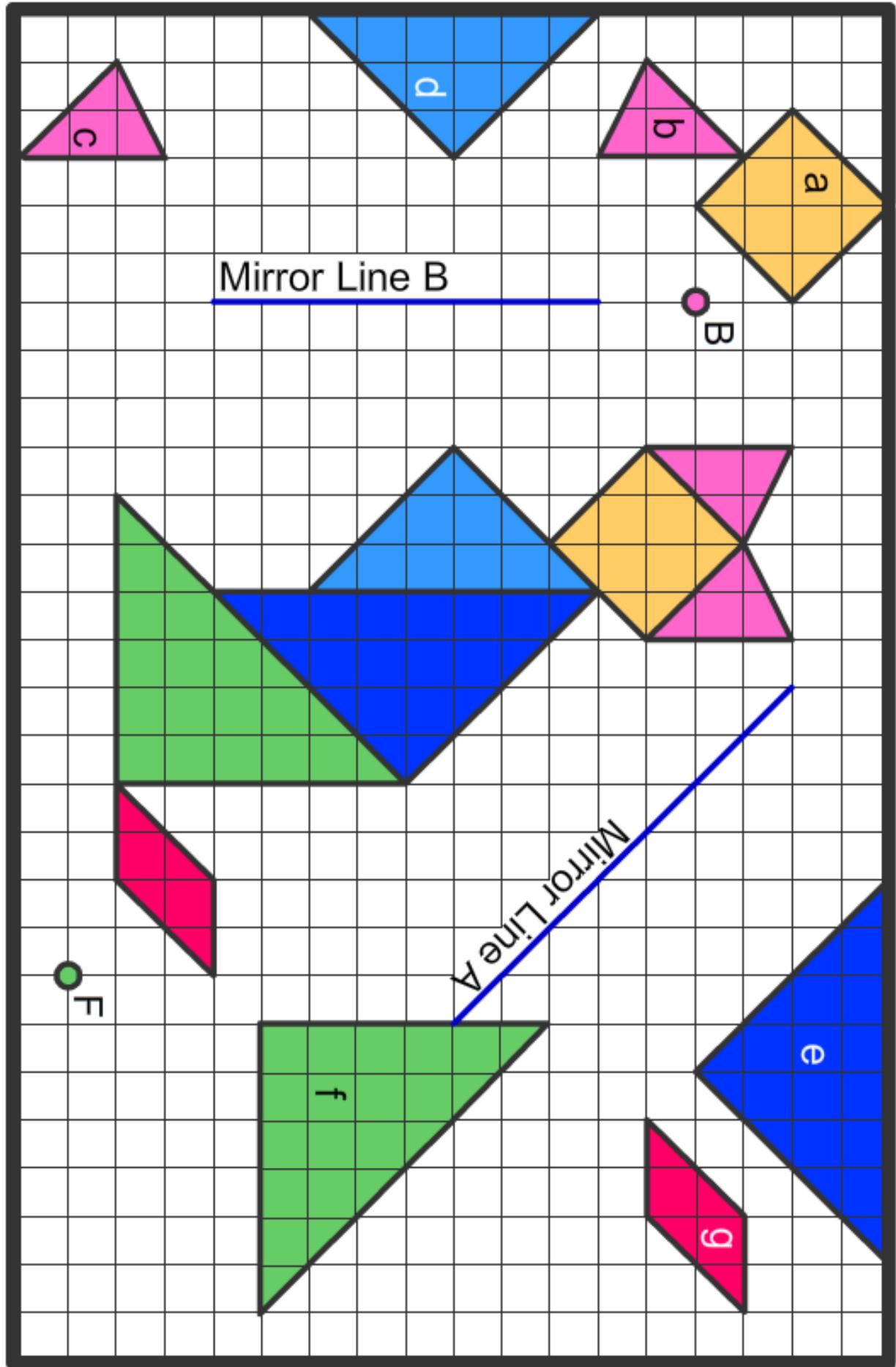
6. Rotate shape **f** 90°
counter-clockwise
about F.

7. Translate shape **g**
7 units to the left and
11 units down.

mixed transformations mystery picture 2



answer



1. Rotate shape **a** 180° about point A and then translate it 5 units left.

2. Rotate shape **b** 90° counter-clockwise about point B then reflect in mirror line A.

3. Translate shape **c** by the 2 units up and then rotate 90° counter-clockwise about point C.

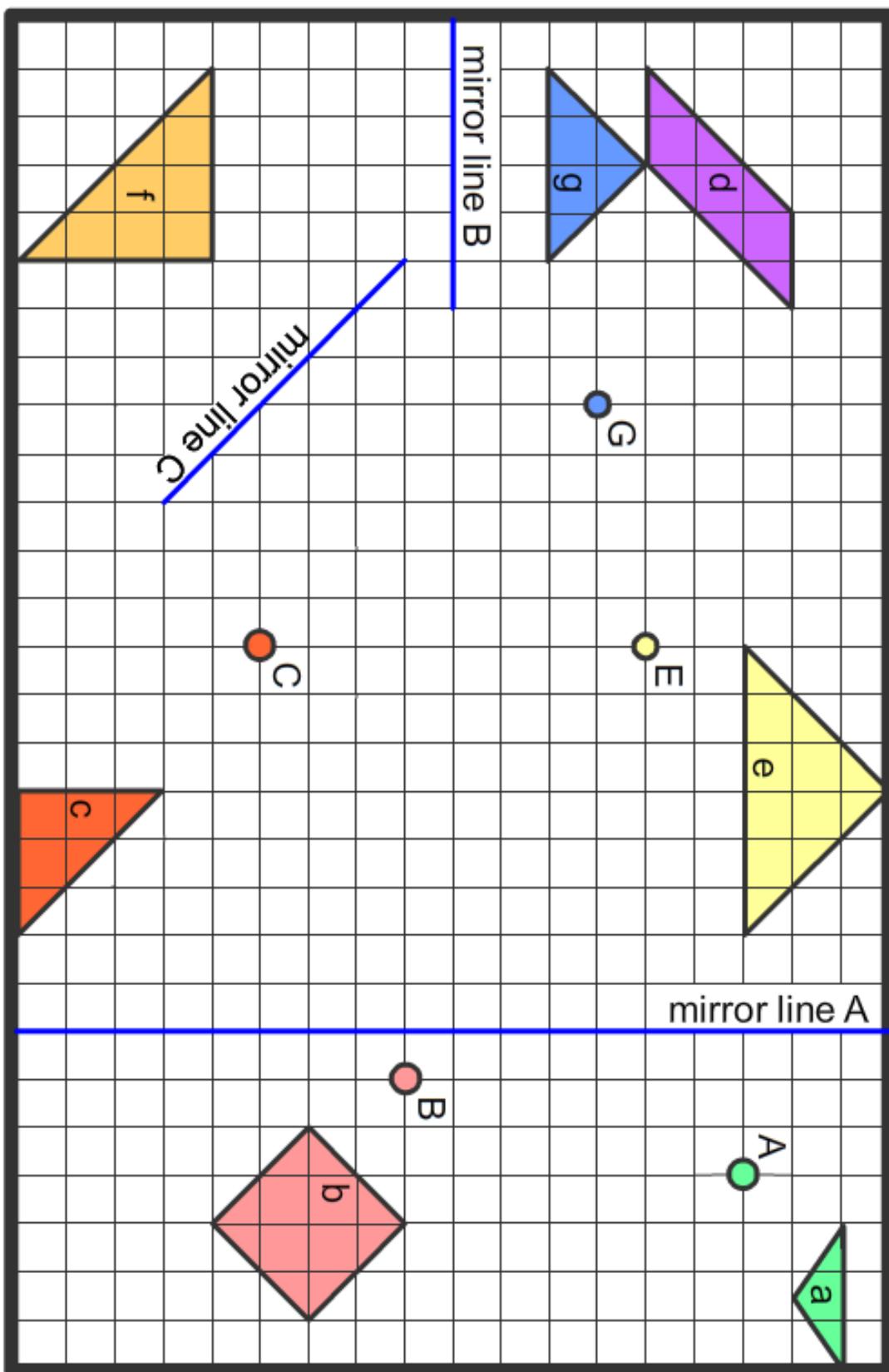
4. Reflect shape **d** in mirror line B and then translate it 13 units right and 3 units up.

5. Translate shape **e** 3 units left and then rotate it 180° about the point E.

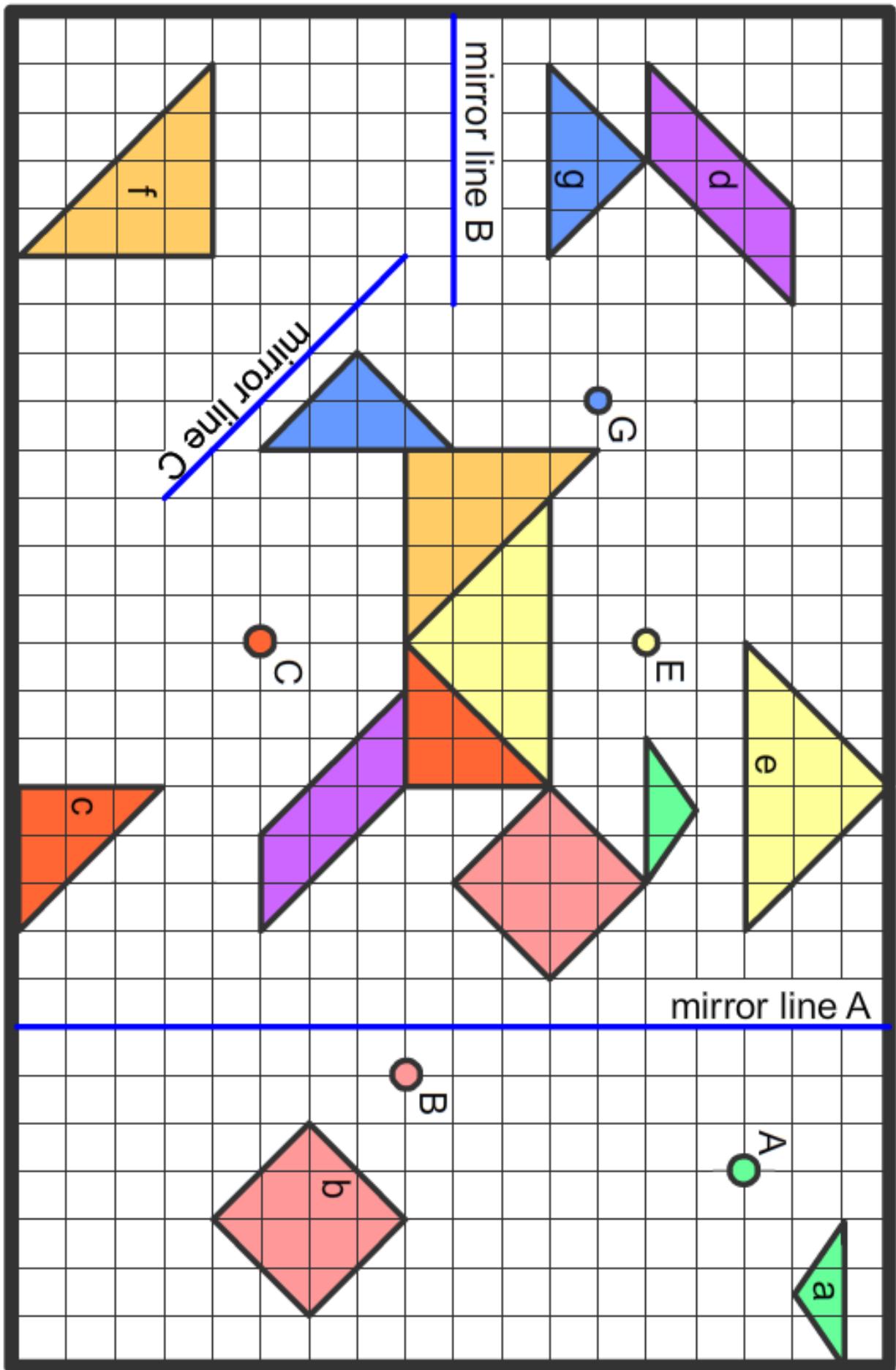
6. Reflect shape **f** in the mirror line C.

7. Rotate shape **g** 90° counter-clockwise about the point marked G.

combined mystery picture transformations



answer



1. Translate shape **a** 3 units to the right. Then reflect it in the y axis.

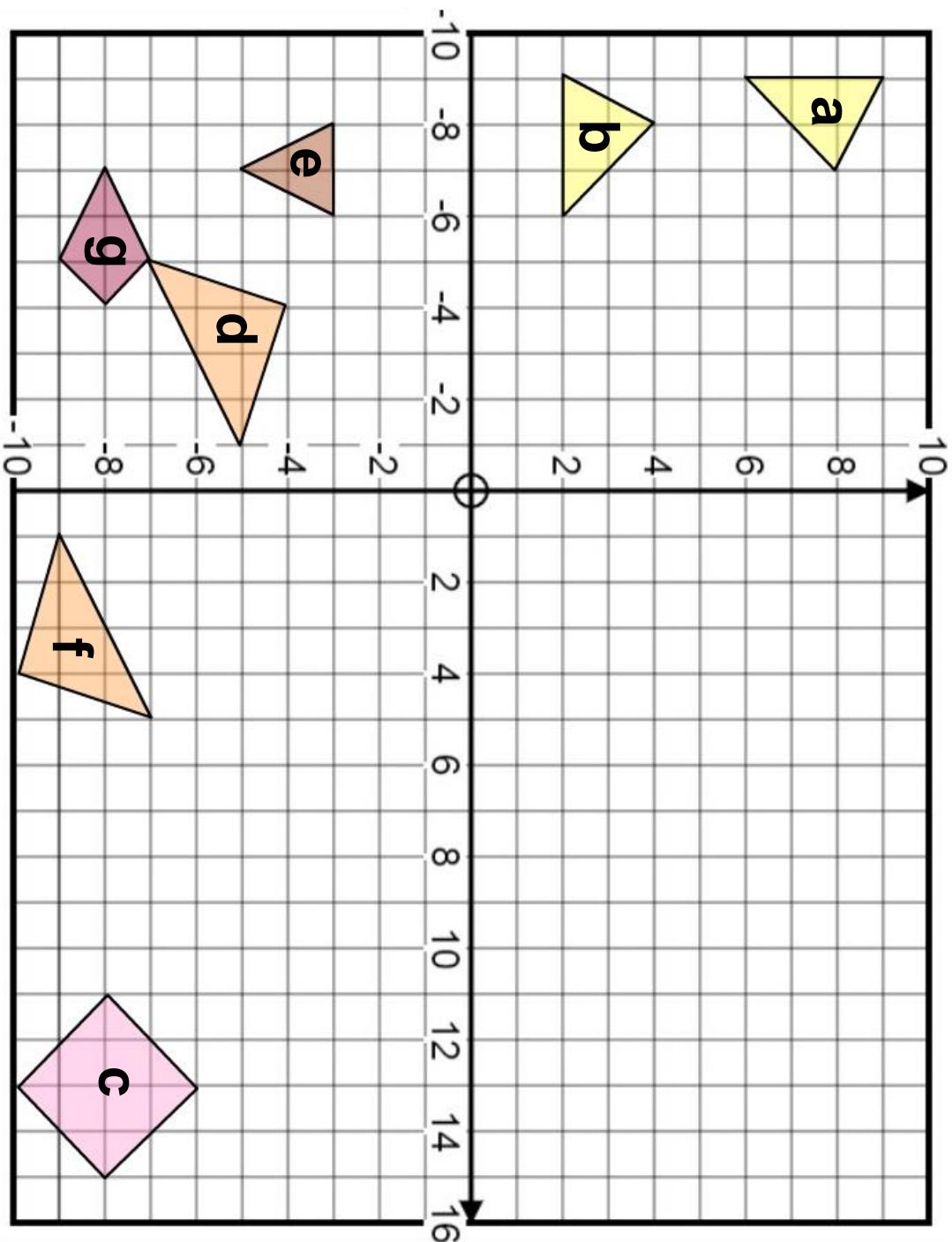
2. Reflect shape **b** in the x axis and then in the line $y=-x$.

3. Translate shape **c** 9 units left and 2 units up. Then reflect it in the x axis.

4. Reflect shape **d** in the x axis and then rotate it 90° clockwise about the origin.

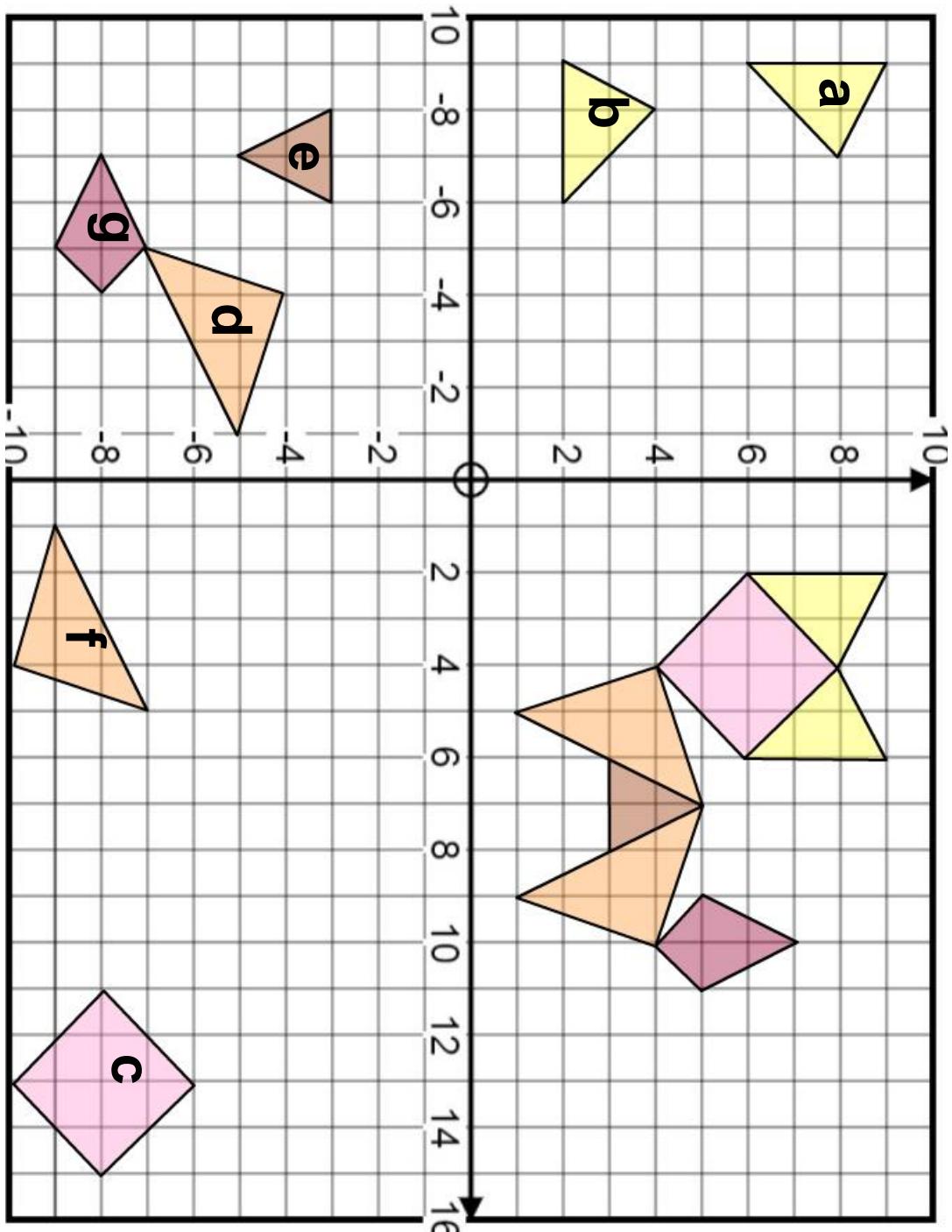
5. Rotate shape **e** 180° about the origin.

6. Reflect shape **f** in the line $y = -x$ and then reflect it in the x axis.



combined transformations mystery picture 2

answer

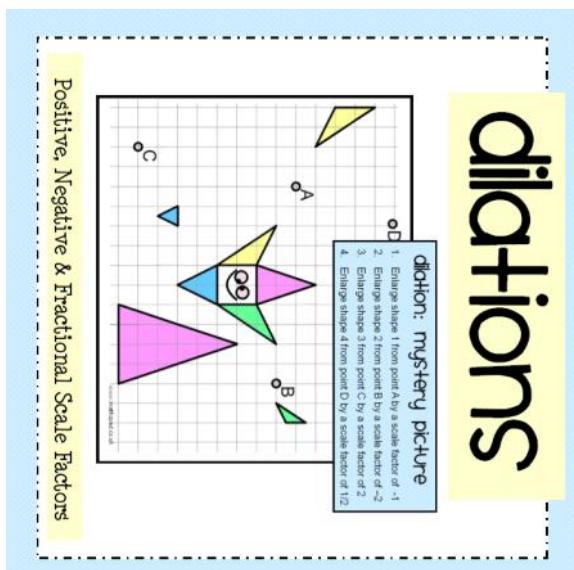
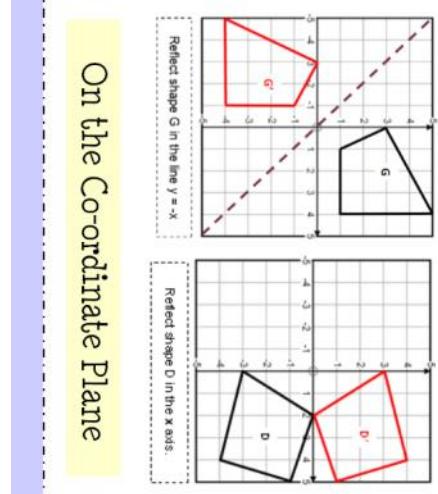


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