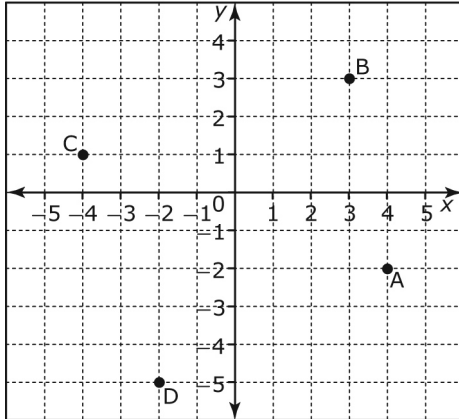


# Chapter 6 BLM Answers

## BLM 6-2 Chapter 6 Warm-Up Section 6.1

1.



2. Quadrant II

3.  $\angle Q$  corresponds to  $\angle Y$ ;

$\angle R$  corresponds to  $\angle Z$ ;

$\angle P$  corresponds to  $\angle X$ ;

side PQ corresponds to side XY;

side PR corresponds to side XZ;

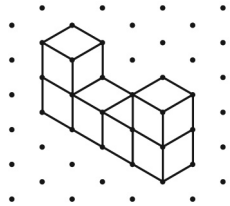
side QR corresponds to side YZ

4. Yes. The scale factor is 1.5.

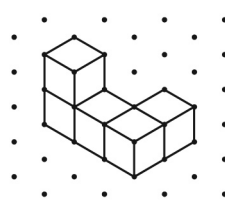
5. a) Yes. The corresponding angles are equal and the corresponding sides are proportional.

b) No. The corresponding angles are not equal and the corresponding sides are not proportional.

6. a)

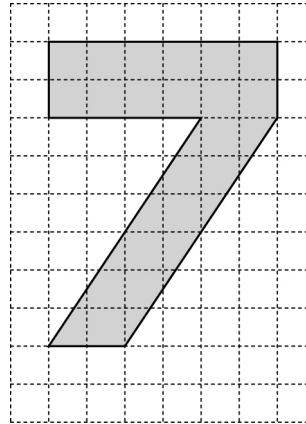


b)

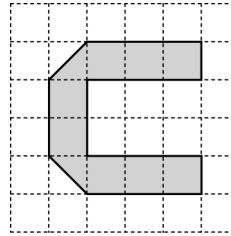


## Section 6.2

1.

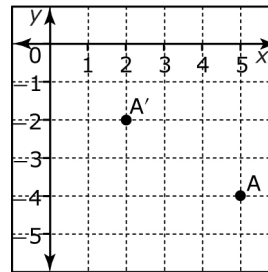


2.



3. 1:15

4.



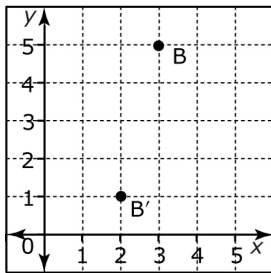
## Section 6.3

1. a) 5 units right, 3 units up

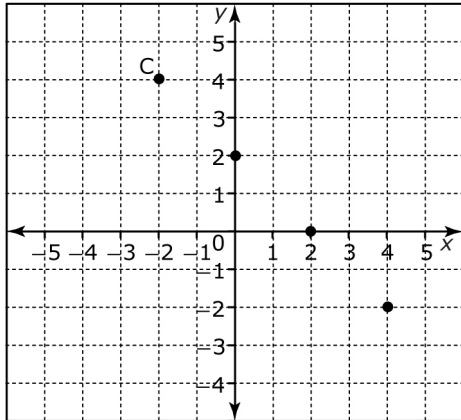
b) 5 units left, 5 units down



**2.**



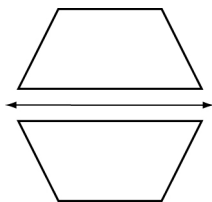
**3.**



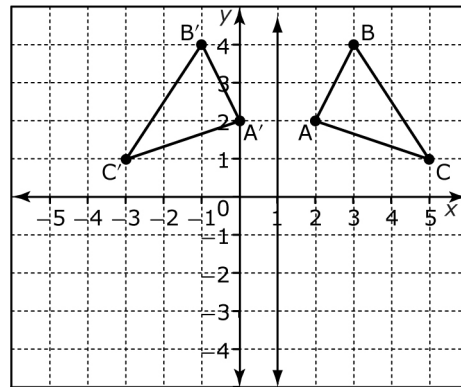
- 4. a)** No. The triangles are not a mirror image of each other.  
**b)** Yes. The triangles are a mirror image of each other, and corresponding points on the sides are equal distance from the line of reflection.

## Section 6.4

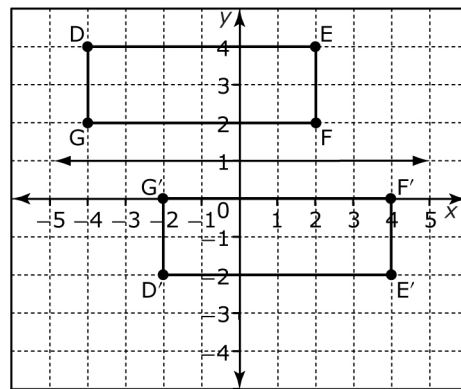
**1.**



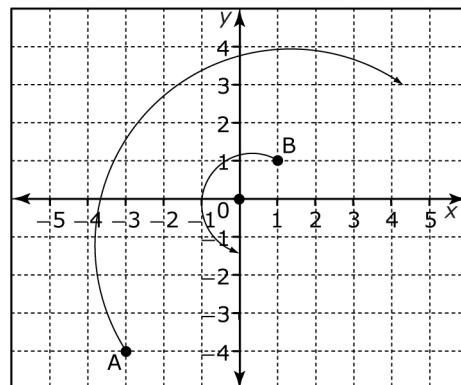
**2.**



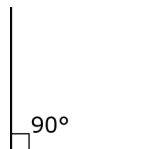
**3.**



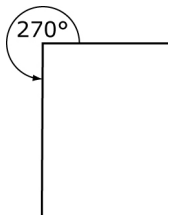
**4.**



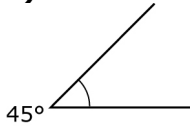
**5. a)**



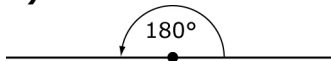
**b)**



**c)**

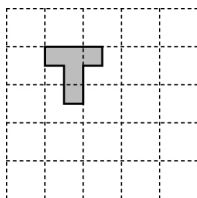


**d)**

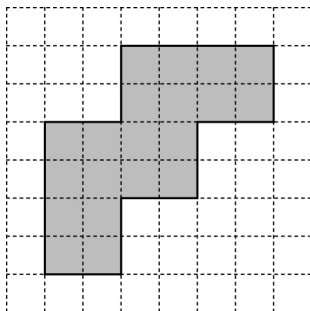


**BLM 6-4 Section 6.1 Extra Practice**

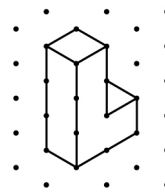
1.  $\angle A$  corresponds to  $\angle D$ ;  
 $\angle B$  corresponds to  $\angle E$ ;  
 $\angle C$  corresponds to  $\angle F$ ;  
side AB corresponds to side DE;  
side BC corresponds to side EF;  
side AC corresponds to side DF
2. Yes. The scale factor is 3.
3. No. The corresponding sides are not proportional.
4. The frame is 12" by 15".
5. Example: The stones could be 3" by 4" or 9" by 12".
- 6.



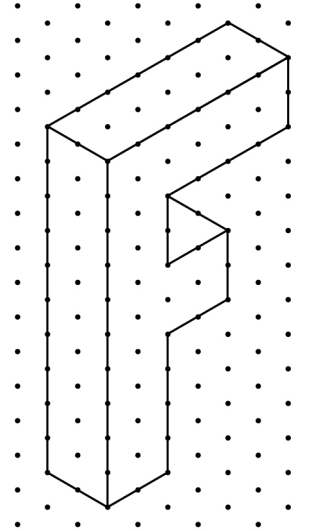
**7.**



**8.**



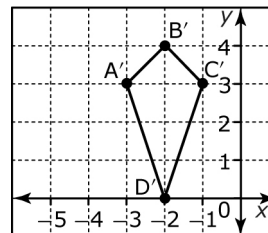
**9.**



**10.** Paul should use a scale factor of 2:3.

**BLM 6-5 Section 6.2 Extra Practice**

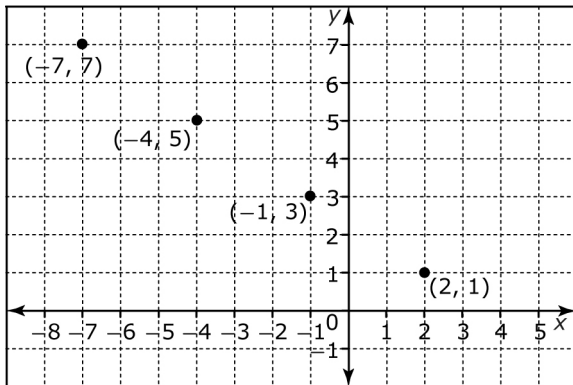
1. **a)** 5 left, 4 down    **b)** 4 right, 3 up
2. **a)** (3, 1)    **b)** (5, 4)    **c)** (9, 0)
- d)** (0, -1)    **e)** (11, 5)
3. **a)**



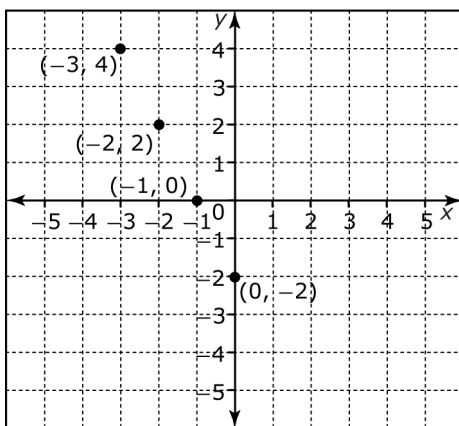
**b)**  $A'(-3, 3)$ ,  $B'(-2, 4)$ ,  $C'(-1, 3)$ ,  
 $D'(-2, 0)$



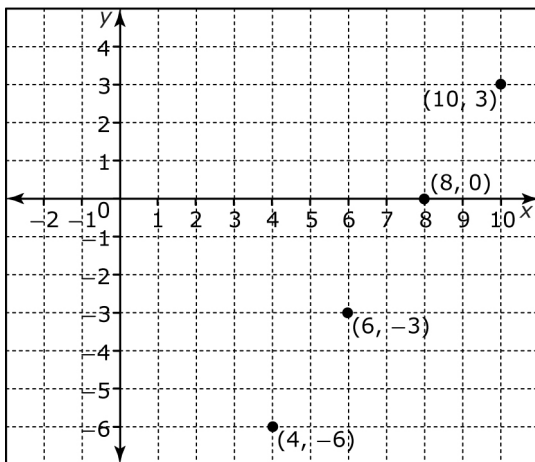
**4. a)**



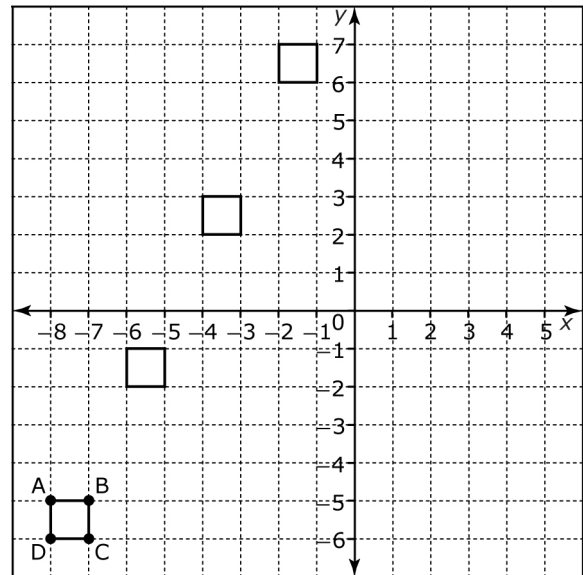
**b)**



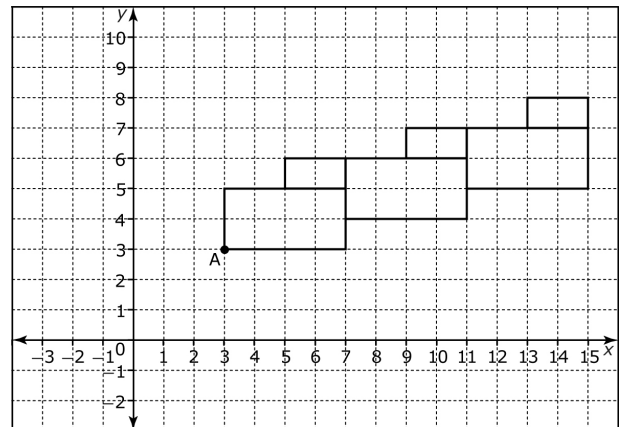
**c)**



**5.**



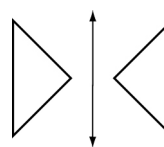
**6. a)** translate 4 right, 1 up  
**b) and c)**



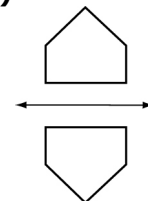
**BLM 6-6 Section 6.3 Extra Practice**

**1.** Parts b) and c) are reflections.

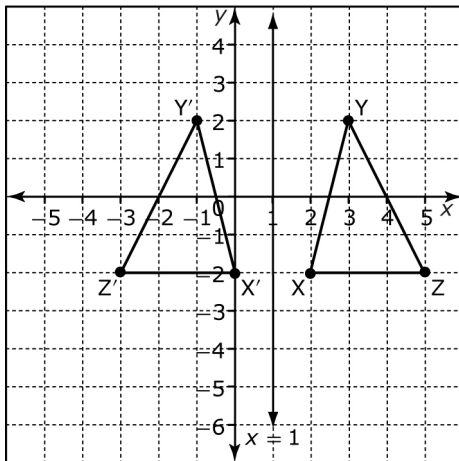
**2. a)**



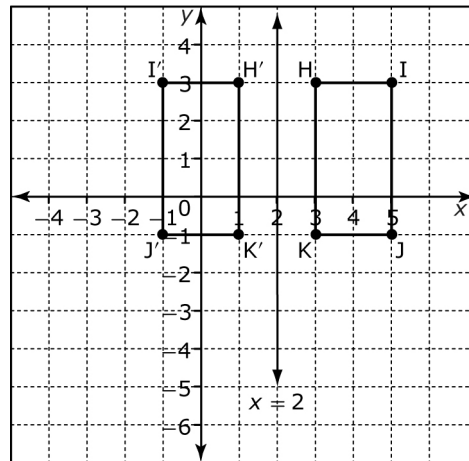
**b)**



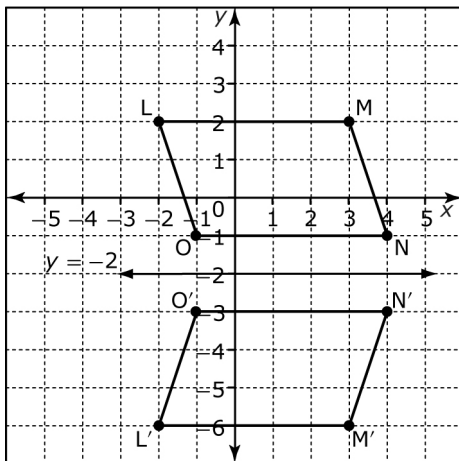
**3. a)**



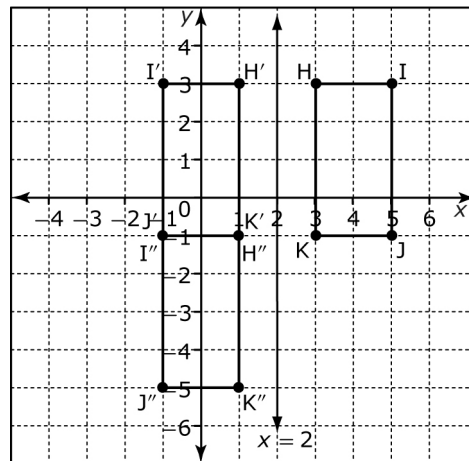
**6. a)**



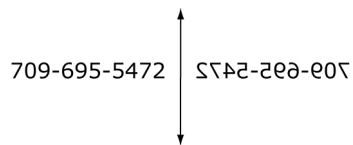
**b)**



**b)**



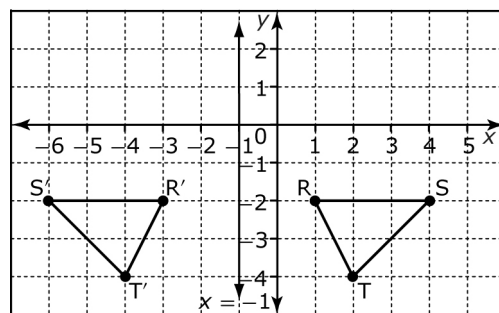
**4. Example:**



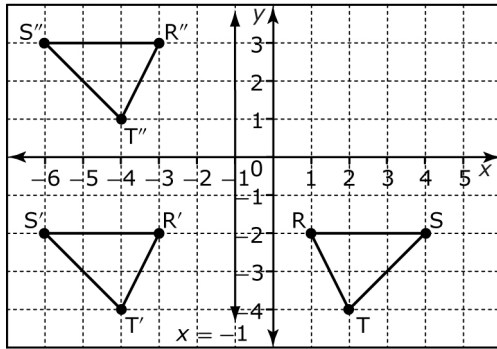
**5. a)** Example: Translate grey triangles right and up. Translate white triangles right.

**b)** Example: Reflect each diamond over a vertical line of reflection.

**7. a)**

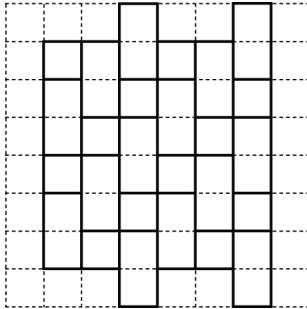


**b)**

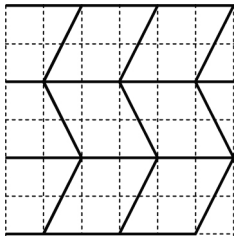


**c) Yes**

**8. a) Example:**



**b) Example:**

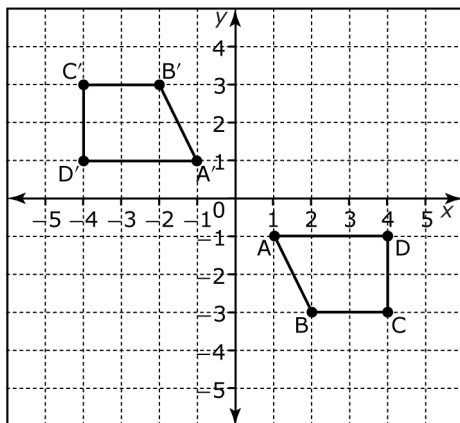


**BLM 6-7 Section 6.4 Extra Practice**

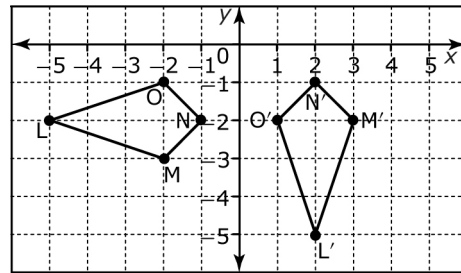
**1. a) (-6, -2) b) (0, 5)**

**2. a) (-3, -5) b) (8, 1)**

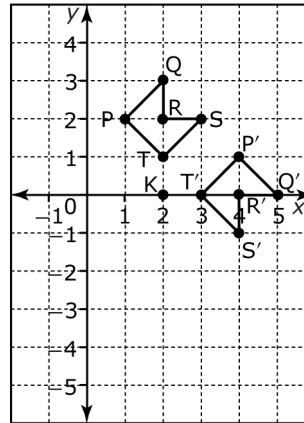
**3. a)**



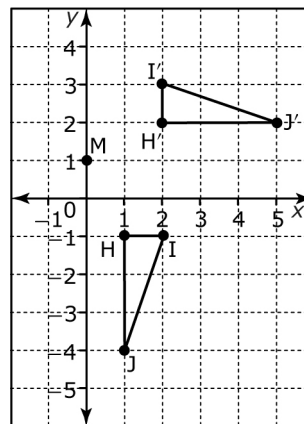
**b)**



**4. a)**



**b)**



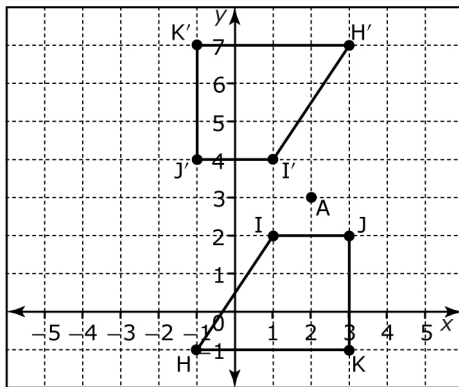
**5. a) (-2, 5) b) (-4, 3)**

**6. a) (12, -1) b) (2, -6)**

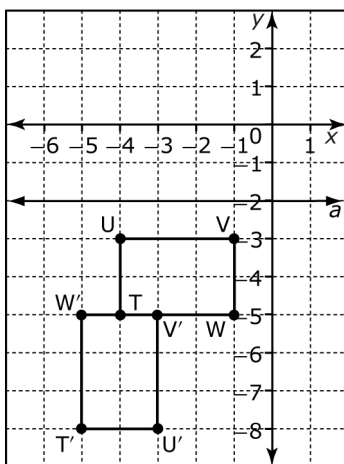
**7. a) (-5, 2) b) (3, 5)**



8. a)



b)



9. a) i)  $240^\circ$  ii)  $90^\circ$   
b) i) 3 lines ii) 8 lines

# BLM 6-8 Chapter 6 Test

1. C

2. D

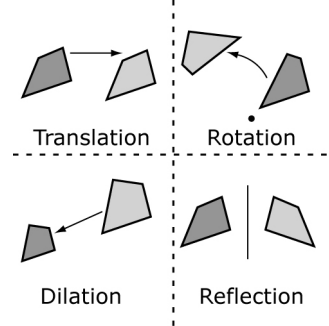
3. A

4. B

5. B

6. Example: Reflect the figure over the y-axis and reflect the result over the x-axis.

7.



8. rotation and translation

9. One way is to reflect the trapezoid over the centre line. Another is to rotate  $180^\circ$  using centre ice as the centre of rotation.

10.

