

Week 7 Lesson 1 Answers

4a. A (0, 7); B (3, 5); C (3, 2); D (10, 4); E (6, 8); F (7, 3)

5a. A (5, 5); B (4, 7); C (6, 7); D (7, 5)

6a. Vertices plotted from top left clockwise (1, 7) (8, 7) (8, 3) (1, 3)

4b. A (1, 2); B (5, 3); C (7, 1); D (9, 4); E (3, 8); F (8, 8)

5b. A (3, 0); B (8, 4); C (7, 1); D (10, 8)

6b. Vertices plotted from top left clockwise (4, 8) (5, 8) (5, 0) (4, 0)

Challenge

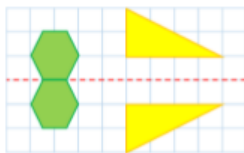
5a. Accept any coordinates that would make a quadrilateral with the given coordinates, for example: (1, 4) and (8, 4), (1, 8) and (8, 8)

6a. True. If you know 3 coordinates you know the direction of the square and can calculate which point is missing.

Week 7 Lesson 2 Answers

5a. A is incorrect, B is incorrect.

6a.

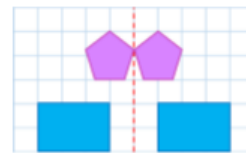


7a. A = (4, 3), B = (3, 5), C = (2, 2), D = (1, 4)

8a. B

5b. A is incorrect, B is correct.

6b.

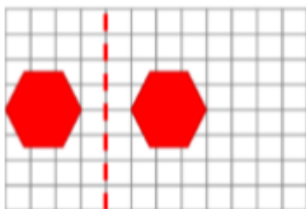


7b. A = (0, 1), B = (4, 2), C = (6, 0), D = (9, 0)

8b. B

Challenge

5b.



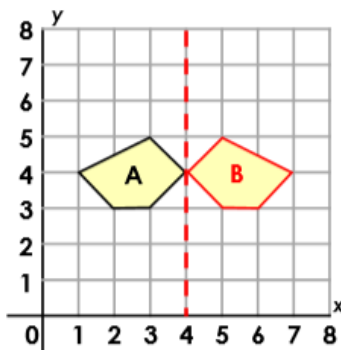
6b.



Week 7 Lesson 3 Answers

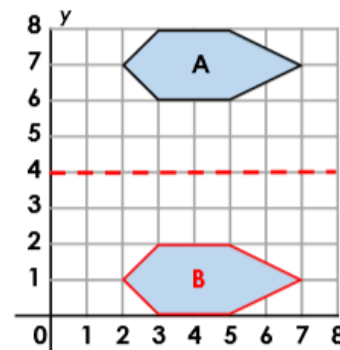
5a. $b = (4, 1)$, $c = (3, 3)$

6a.



5b. $b = (6, 3)$, $c = (5, 2)$, $d = (5, 5)$

6b.



8a.

Point	Shape A	Shape B
a	(5, 4)	(5, 6)
b	(7, 3)	(7, 7)
c	(6, 2)	(6, 8)
d	(4, 2)	(4, 8)
e	(4, 4)	(4, 6)

8b.

Point	Shape A	Shape B
a	(2, 6)	(4, 6)
b	(3, 3)	(3, 3)
c	(2, 0)	(4, 0)
d	(1, 2)	(5, 2)
e	(1, 4)	(5, 4)
f	(0, 5)	(6, 5)

Challenge

4a. The X axis is numbered incorrectly; 6 and 7 are the wrong way round. Shape D is not reflected correctly. The second coordinate for shape B is incorrect; it should be (5, 9).

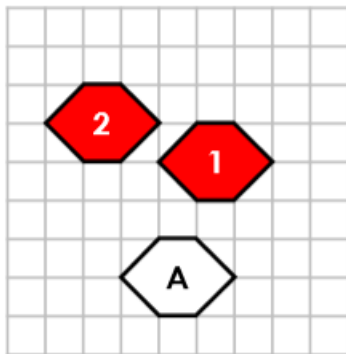
5a. A star

Week 7 Lesson 4 Answers

4a. **5 right, 3 up**

5a. **True**

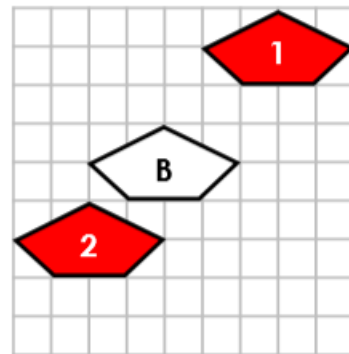
6a.



4b. **4 left, 3 down**

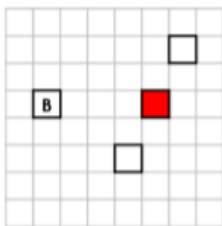
5b. **False, it is 4 left and 6 up.**

6b.



Challenge

5b. **4 right, 0 down**



6b. **No. The angles stay the same as the dimensions do not change. Children should support their answer by drawing their own example of a translation.**

Week 7 Lesson 5 Answers

4a. **C: (5, 1) (7, 1) (7, 3)**

5a. **False; it will be (2, 6)**

6a. **A (4, 1), B (6, 1), C (6, 0), D (4, 0)**

4b. **D: (5, 5) (5, 3) (8, 5) (8, 3)**

5b. **True**

6b. **A (5, 3), B (5, 1), C (7, 1)**

Challenge

4b. **B**

5b. **3 units right and 2 units up: (8, 7) (6, 5) (8, 5)**

3 units right and 2 units down: (8, 3) (6, 1) (8, 1)

3 units left and 2 units up: (2, 7) (0, 5) (2, 5)

3 units left and 2 units down: (2, 3) (0, 1) (2, 1)