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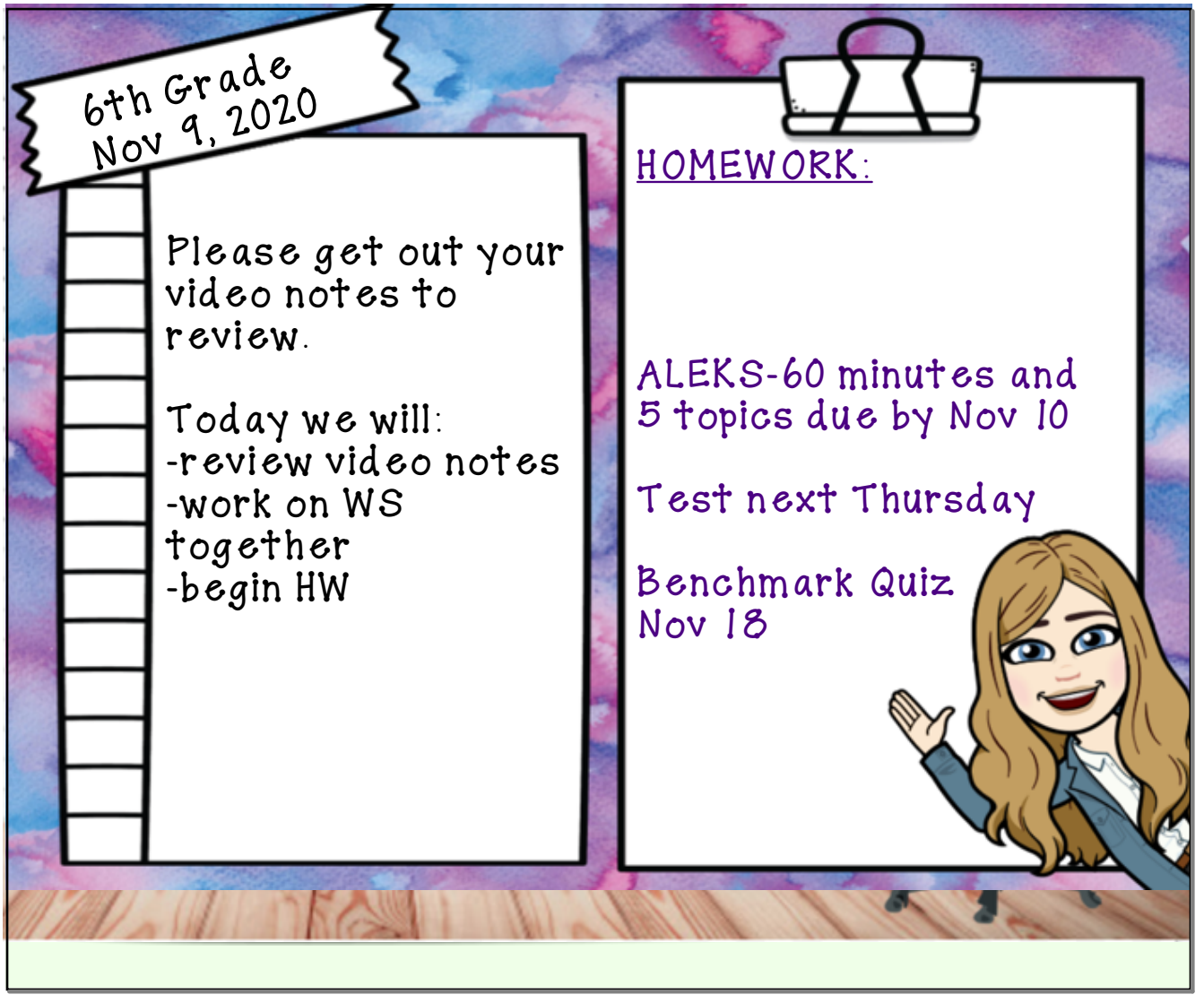

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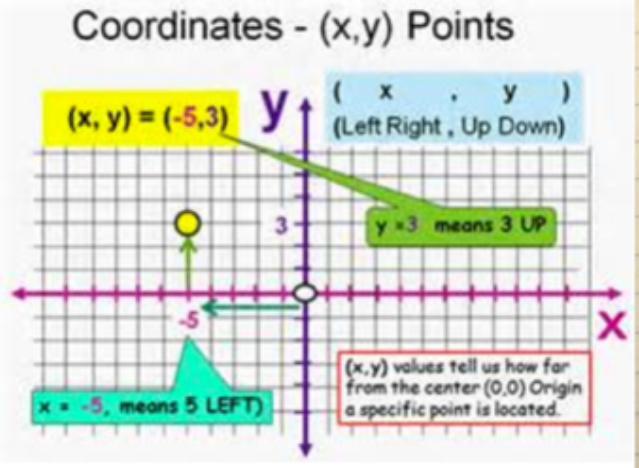
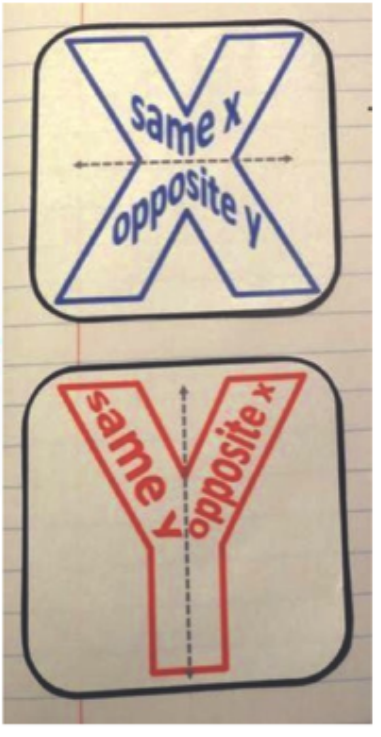
Graphing on a Coordinate Plane

To graph an ordered pair, draw a dot at the point that corresponds to the Coordinate.

Remember that for points reflected across the x-axis: x-coordinate is the same. y-coordinate is the opposite.

For points reflected across the y-axis: x-coordinate is the opposite, y-coordinate is the same.





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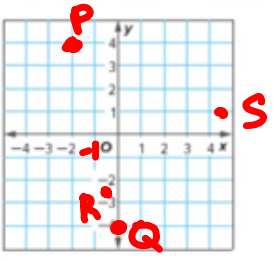
Graph and label each point on the coordinate plane below.

a. $P(-2, 4)$ → left 4

b. $Q(0, -4)$

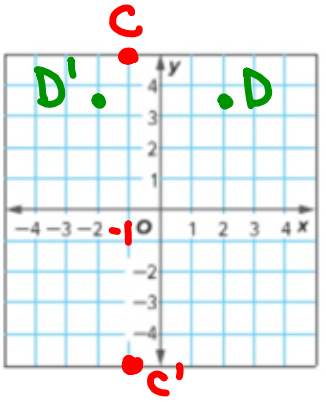
c. $R\left(-\frac{1}{2}, -2\frac{1}{2}\right)$

d. $S(4.5, 1)$



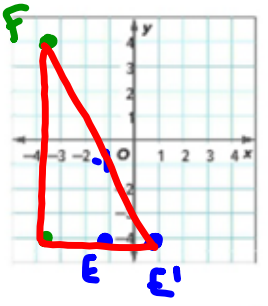
e. Graph $C(-1, 5)$. Then graph its reflection across the x-axis.

f. Graph $D\left(2, 3\frac{1}{2}\right)$. Then graph its reflection across the y-axis.



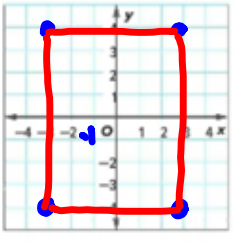
Use a coordinate plane to represent Jasmine's stone garden. Graph points $E(-1, -4)$ and $F\left(-3\frac{1}{2}, 4\right)$. Then reflect point E across the y-axis and point F across the x-axis. What is the shape of her stone garden? (Examples 1–5)

triangle



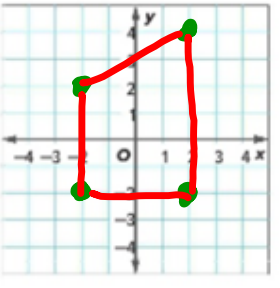
g. Ms. Shaull is drawing a map of the school. Her room is at $(-3, 4)$ and the gym is at $(3, 4)$. The library is a reflection of $(3, 4)$ across the x-axis. This point is reflected across the y-axis to graph the office. What figure is graphed on the map?

rectangle



Mr. Martin is using a coordinate plane to design a logo. He graphs points at (2, 4) and (2, −2). He reflects (2, −2) across the y-axis. Then he reflects the new point across the x-axis. What figure is Mr. Martin using for his logo?

trapezoid



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More examples/notes:

Lesson 7 Skills Practice
Graph on the Coordinate Plane

Name _____
Unit ___ Lesson _____ Due Date _____

Graph and label each point on the coordinate plane at the right.

1. $N(1, 5)$

2. $F(-2, 5)$

3. $G(-1, -4)$

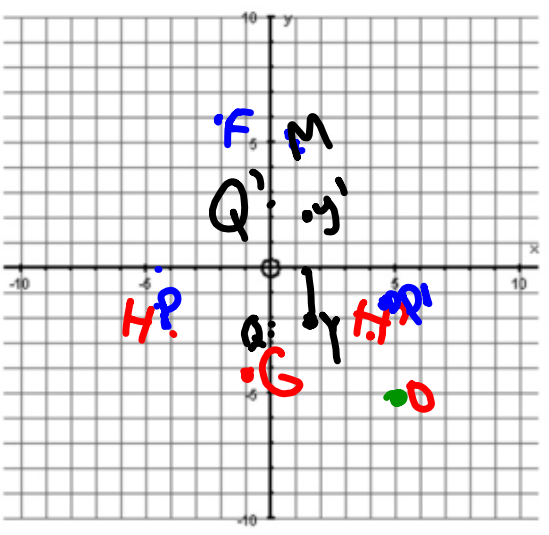
4. $0(5, -5)$

5. Graph $Y(1.5, -2)$ on the coordinate grid to the right. Then graph its reflection across the x–axis.

6. Graph $H(-4, -2.5)$ on the coordinate grid to the right. Then graph its reflection across the y–axis.

7. Graph $P(-4.5, -1.5)$ on the coordinate grid to the right. Then graph its reflection across the y–axis.

8. Graph $Q(0, -2.5)$ on the coordinate grid to the right. Then graph its reflection across the x–axis.



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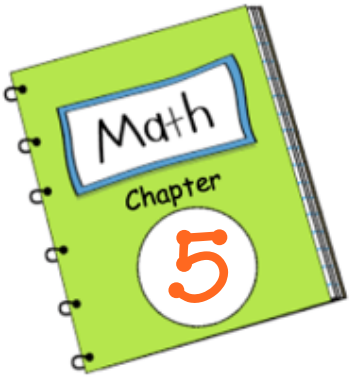

TITLE: Integers and the Coordinate Plane

Date	Lesson	Topic/Assignment
10/19	1	Integers and Graphing VN and Examples
10/20	1	HW WS
10/22	2	Absolute Value Video Notes
10/22	2	Packet
10/23	1-2	Alien WS
10/26	3	Compare and Order Integers Notes
10/26	3	Page 367 and 369 from Text
10/27	3	Skills Practice WS
10/28	4	Terminating and Repeating Decimals VN
10/29	4	Practice WS (6 Boxes)
10/30	4	Reteach and Review WS
11/2	5	Compare and Order Rational Numbers VN
11/3	5	Skills Practice WS
11/4	5	Practice WS (6 Boxes)
11/4	6	Coordinate Plane Video Notes
11/4	6	In-Class Notes (half sheet)
11/5	6	Page 401 from Text
11/6	7	Graphing in Coordinate Plane VN
11/6	7	In-Class Notes (half sheet)
11/6	7	Page 407 from Text

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Independent Practice pg407

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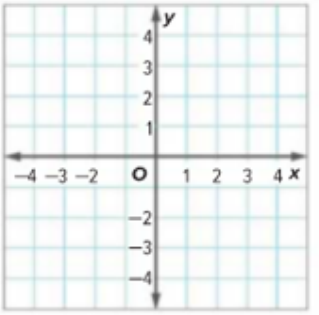
Graph and label each point on the coordinate plane to the right.
(Examples 1 and 2)

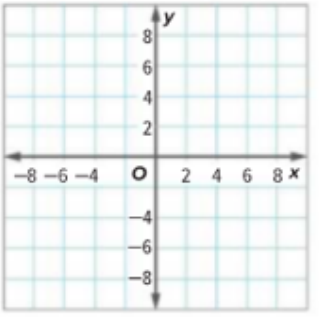
1. $T(0, 0)$
2. $D(2, 1)$
3. $K(-3.25, 3)$
4. $N\left(0, -1\frac{1}{2}\right)$
5. $F(-4.5, 0)$
6. $A\left(-3\frac{1}{2}, -3\right)$
7. $L(2.5, -3.5)$
8. $S\left(4, 2\frac{1}{2}\right)$



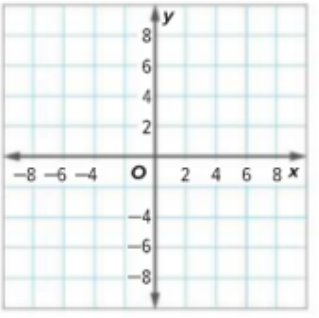
9. Graph $U(3.5, -3)$ on the coordinate plane to the right. Then graph its reflection across the x-axis. (Example 3)

10. Graph $B(-7, 6)$ on the coordinate plane on the right. Then graph its reflection across the x-axis. (Example 3)

11. Graph $R(-2, 5)$ on the coordinate plane to the right. Then graph its reflection across the y-axis. (Example 4)



12. Amelia is drawing a map of the park. She graphs the entrance at $(2, -3)$. She reflects $(2, -3)$ across the y-axis. Then Amelia reflects the new point across the x-axis. What figure is graphed on the map? (Example 5)



13. A point is reflected across the y-axis. The new point is located at $(-4.25, -1.75)$. Write the ordered pair that represents the original point.

14. MP **Model with Mathematics** A point is reflected across the x-axis. The new point is $(-7.5, 6)$. What is the distance between the two points?