Name _____ Date _____ Class _____

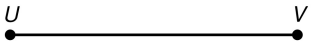
LESSON 1-2

Practice B

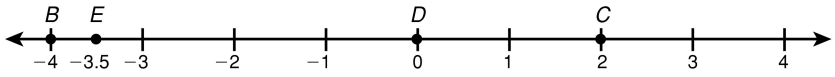
Measuring and Constructing Segments

Draw your answer in the space provided.

1. Use a compass and straightedge to construct $\overline{XY}$ congruent to $\overline{UV}$.



Find the coordinate of each point.



2. *D* _____ **3.** *C* _____ **4.** *E* _____

Find each length.

5. *BE* _____ **6.** *DB* _____ **7.** *EC* _____

For Exercises 8–11, *H* is between *I* and *J*.

8. $HI = 3.9$ and $HJ = 6.2$. Find IJ. _____

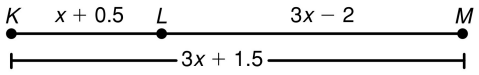
9. $JI = 25$ and $IH = 13$. Find HJ. _____

10. H is the midpoint of $\overline{IJ}$, and $IH = 0.75$. Find HJ. _____

11. H is the midpoint of $\overline{IJ}$, and $IJ = 9.4$. Find IH. _____

Find the measurements.

12.



Find LM. _____

13. A pole-vaulter uses a 15-foot-long pole. She grips the pole so that the segment below her left hand is twice the length of the segment above her left hand. Her right hand grips the pole 1.5 feet above her left hand. How far up the pole is her right hand?

_____

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Name _____ Date _____ Class _____

LESSON 1-6

Practice B

Midpoint and Distance in the Coordinate Plane

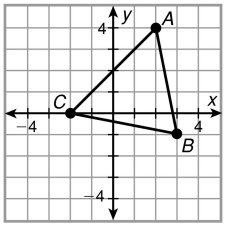
Find the coordinates of the midpoint of each segment.

1. $\overline{TU}$ with endpoints $T(5, -1)$ and $U(1, -5)$ _____

2. $\overline{VW}$ with endpoints $V(-2, -6)$ and $W(x + 2, y + 3)$ _____

3. Y is the midpoint of $\overline{XZ}$. X has coordinates (2, 4), and Y has coordinates (–1, 1). Find the coordinates of Z. _____

Use the figure for Exercises 4–7.



4. Find AB. _____

5. Find BC. _____

6. Find CA. _____

7. Name a pair of congruent segments. _____

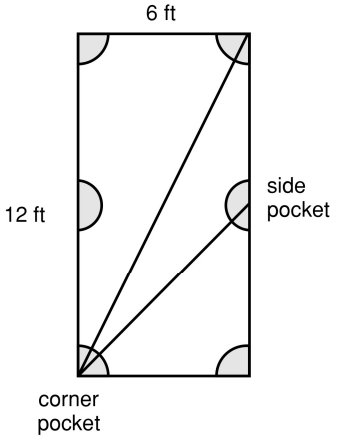
Find the distances.

8. Use the Distance Formula to find the distance, to the nearest tenth, between $K(-7, -4)$ and $L(-2, 0)$. _____

9. Use the Pythagorean Theorem to find the distance, to the nearest tenth, between $F(9, 5)$ and $G(–2, 2)$. _____

Use the figure for Exercises 10 and 11.

Snooker is a kind of pool or billiards played on a 6-foot-by-12-foot table. The side pockets are halfway down the rails (long sides).



10. Find the distance, to the nearest tenth of a foot, diagonally across the table from corner pocket to corner pocket.

_____

11. Find the distance, to the nearest tenth of an inch, diagonally across the table from corner pocket to side pocket.

_____

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