

E-Learning Day Assignment

Feb 9, 8:00am - Feb 13, 2018, 6:00pm

Given by Tom Bolan for CCSS Geometry

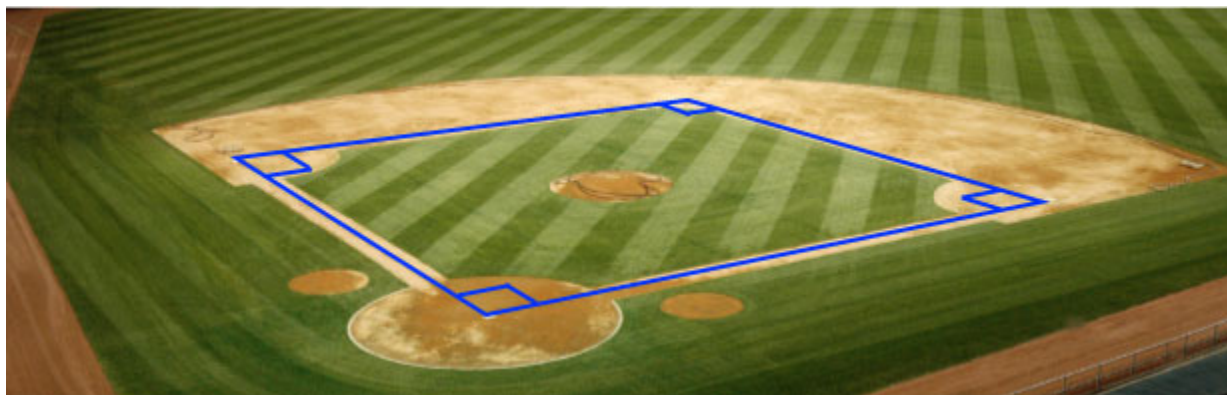
This assignment is for the E-learning day on 2/9/18. It is due by Feb 13th.

14. Pythagorean Theorem and the distance formula

Practice | More practice

1 2 4 5 6 7 9

MCSA 14. Pythagorean Theorem and the distance formula | Practice | More practice | Page 1



The bases of a baseball field lie at the vertices of a square. The distance between each base is 90 feet. How far must the 1st baseman throw the ball to reach the 3rd baseman?

- A. 90 feet B. 180 feet
C. 127.3 feet D. 162 feet

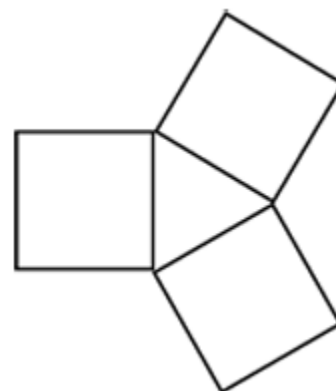
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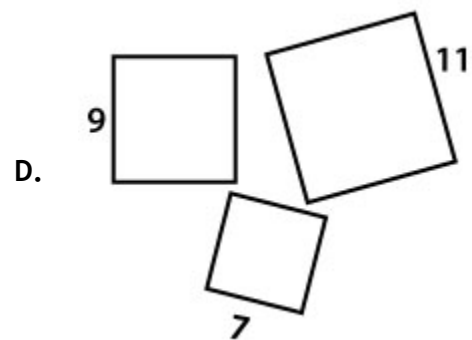
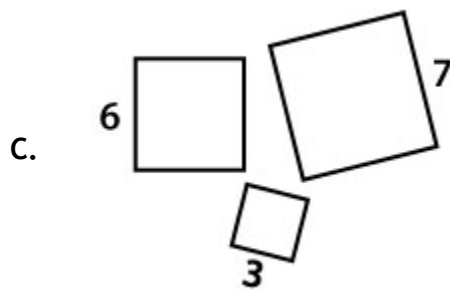
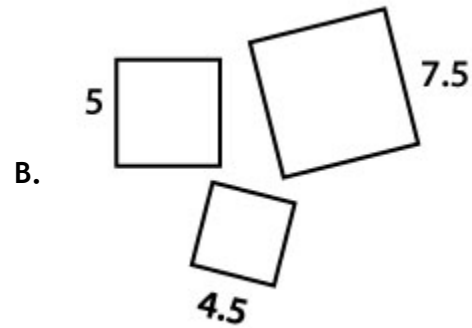
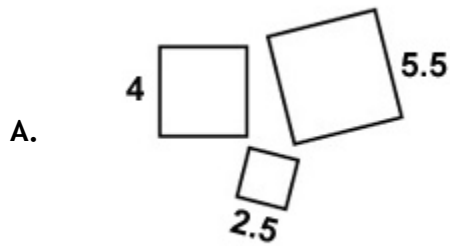
The legs of an isosceles triangle are each 17 inches long, and the base is 16 inches long.

The altitude from the vertex angle of the isosceles triangle to the base is _____ A inches long, and the area of the triangle is _____ B square inches.

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The sides of squares can be used to form triangles as shown here. Use the lengths of the sides of the squares to determine which sets of squares could form an obtuse triangle. Select all that apply.





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The table shows possible side lengths of triangles. For each set of side lengths, drag the tiles to classify the triangle as acute, right, or obtuse.

Side lengths	Triangle
3-3-4	<input type="text" value="A"/>
3-5-5	<input type="text" value="B"/>
3-3-5	<input type="text" value="C"/>
5-6-9	<input type="text" value="D"/>
9-11-13	<input type="text" value="E"/>
4-4-6	<input type="text" value="F"/>

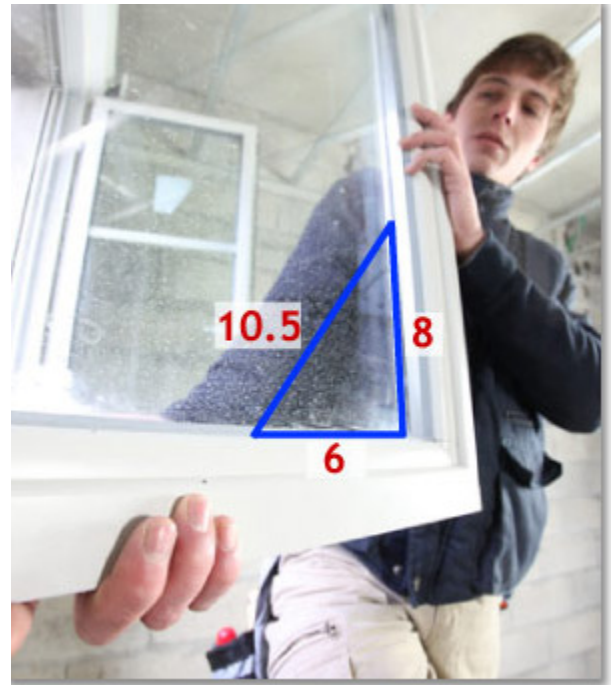
Tiles:

Tile1 acute
Tile3 obtuse

Tile2 right

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In order to check if the corner of a window is truly a right angle, a carpenter measures 6 and 8 inches along the windowpane on either side of the corner. Then he measures the distance from the ends of the first two measurements. He finds that length to be 10.5 inches. What conclusions can the carpenter make about that corner? (Select all that apply.)



- A. The corner of the window is a right angle. B. The corner of the window is not a right angle.
- C. The corner of the window is an acute angle. D. The corner of the window is an obtuse angle.

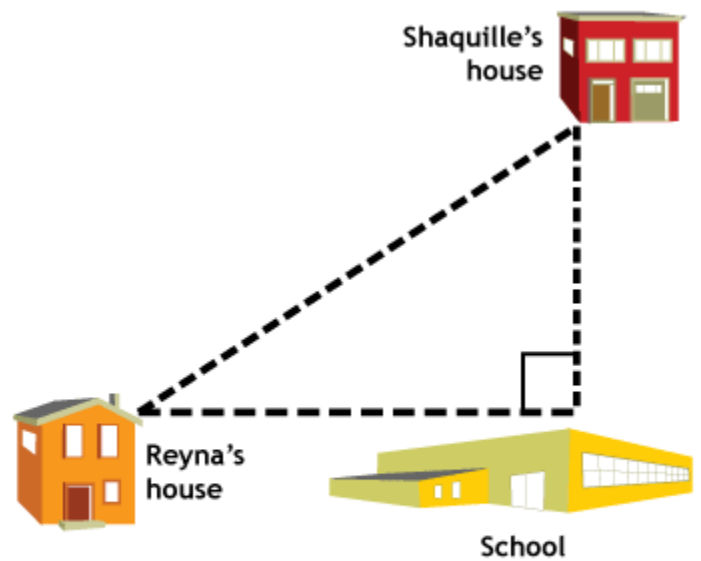
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Point P has coordinates (1,3). Point Q has coordinates (25,10). How long is segment PQ?

- A. 7 units B. 24 units
- C. 25 units D. 31 units

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Reyna's house is 12 blocks due west of the school.
Shaquille's house is 5 blocks due north of the school.
Let the coordinates of Reyna's house be (0,0).



Drawing not to scale

Then the coordinates of Shaquille's house are _____ A .

Reyna and Shaquille agree to meet midway between their houses. The coordinates of the point where they meet are _____ B .