

Tutor Doctor

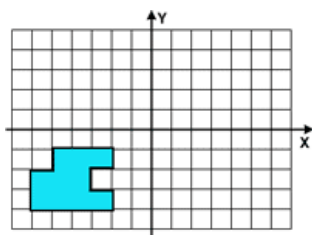
Math 7: Geometry and Spatial Sense, 10 Questions

Your score was 2/10=20%. You took 0 minutes, 54 seconds to complete the test.

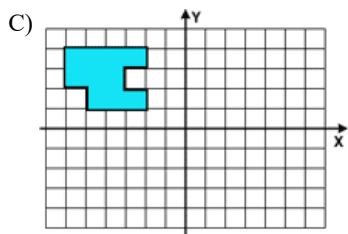
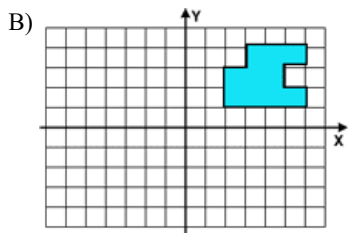
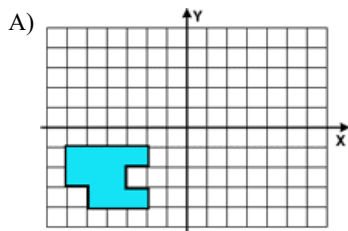
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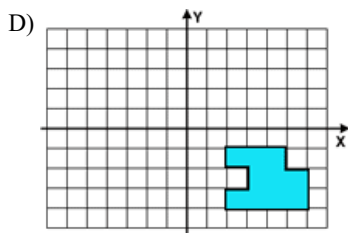
1.

A puzzle piece is shown on the grid below.



Which of the following represents the puzzle piece once it is reflected using the x-axis as the line of reflection?





Correct. Your answer=C, Correct answer=C

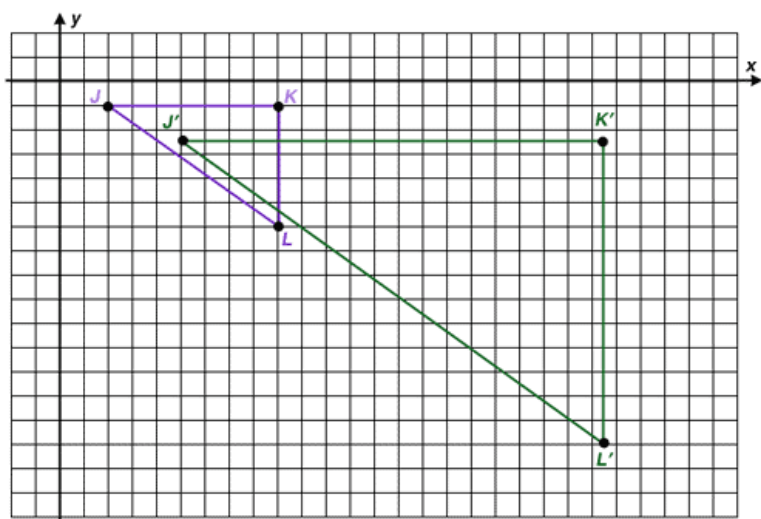
2. In the list below, the transformation that does **not** maintain congruency is

- A) translation
- B) dilatation
- C) rotation
- D) reflection

Incorrect. Your answer=C, Correct answer=B

3.

On the grid below, the original image is $\triangle JKL$ and the transformed image is $\triangle J'K'L'$.



The image was transformed by

- A) dilatation
- B) reflection
- C) rotation
- D) translation

Incorrect. Your answer=C, Correct answer=A

4. What kind of triangle has two equal sides and contains a right angle?

- A) An isosceles, right triangle
- B) An obtuse, right triangle
- C) An equilateral, right triangle
- D) An equilateral, acute triangle

Incorrect. Your answer=C, Correct answer=A

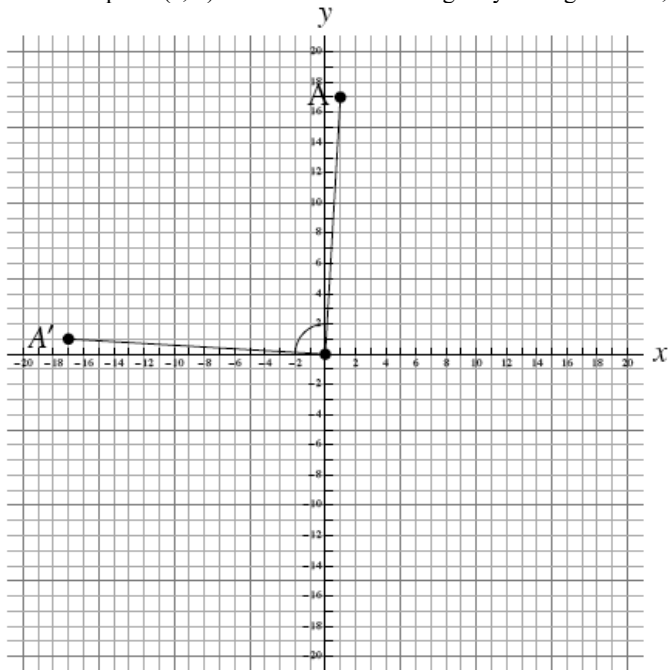
5. The point (1, 17) is rotated by an angle of 90° counterclockwise about the origin. What are the coordinates of the rotated point?

- A) (-17, 1)
- B) (-1, 17)
- C) (-17, -1)
- D) (17, 1)
- E) (1, 17)

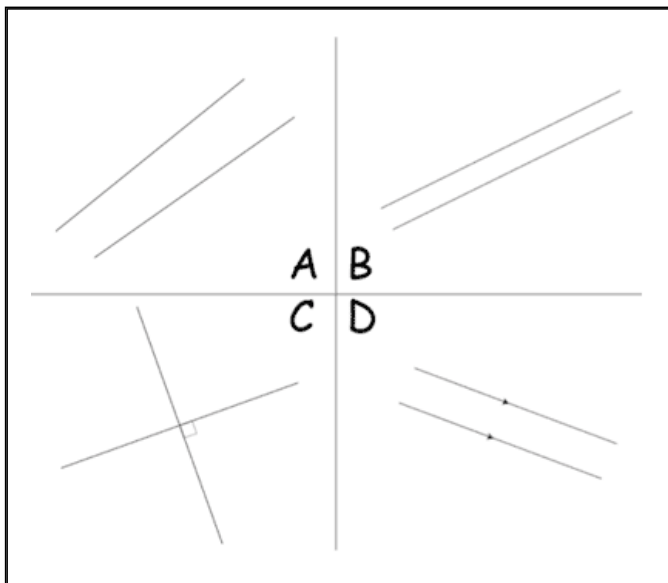
Incorrect. Your answer=C, Correct answer=A

Explanation:

When the point (a, b) is rotated about the origin by an angle of 90° , counterclockwise, the resulting point will have coordinates $(-b, a)$.



6.



Which part of the diagram shown above has the pair of lines communicated to be parallel?

- A) A
- B) B
- C) C
- D) D

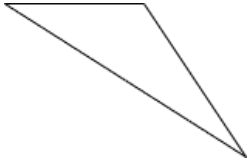
Incorrect. Your answer=C, Correct answer=D

Explanation:

Parallel lines are lines on a flat surface that never meet.
They are always the same distance apart.

1. The lines in answer A don't even look parallel.
2. The lines in answer B **look** parallel, but a diagram is usually not enough to ASSUME that they are.
3. The lines in answer C are perpendicular (at 90° to each other).
4. The addition of the arrows in diagram D clearly communicates that the two lines are parallel.

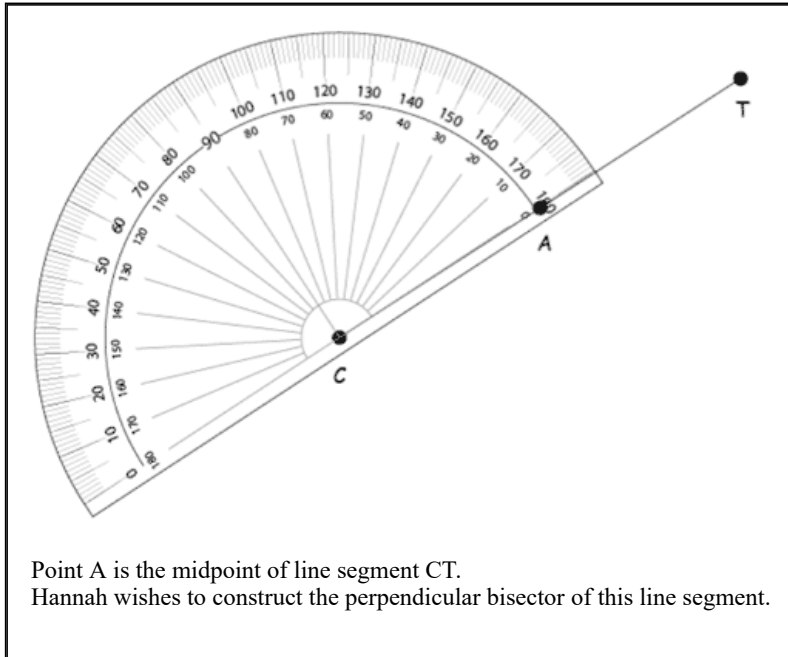
7. What kind of triangle is the following?



- A) An isosceles, acute triangle
- B) An isosceles, obtuse triangle
- C) A scalene, acute triangle
- D) A scalene, obtuse triangle

Incorrect. Your answer=A, Correct answer=D

8.



In order to do this she should:

- A) leave the protractor as it is and make a mark at 90°
- B) rotate the protractor 45° clockwise about point C and make a mark at 90°
- C) slide the protractor to point A and make a mark at 90°
- D) slide the protractor to point T and make a mark at 90°

Incorrect. Your answer=B, Correct answer=C

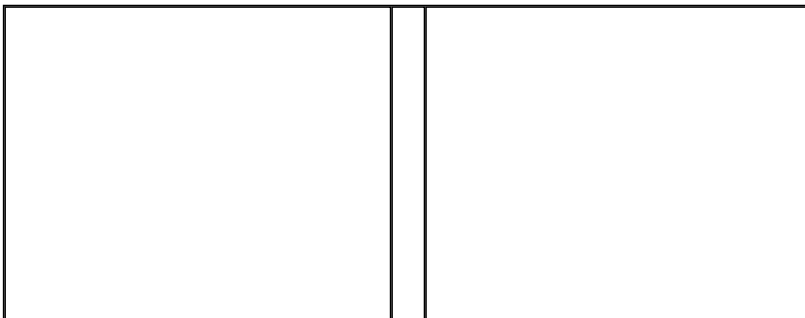
Explanation:

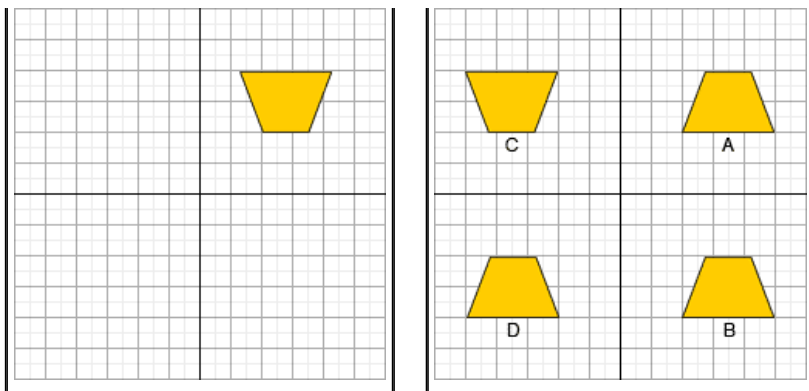
The perpendicular bisector of a line segment is another line that is at 90° to, and passes through the center of, the original line.

Placing the protractor at point A puts the protractor at the midpoint of the line.

Drawing a mark at 90° will then allow her to draw a second line that will be at 90° to segment CAT, and pass through point A (the midpoint of CAT).

9.





If the shape on graph to the left is reflected across the x -axis, which new shape is the reflection?

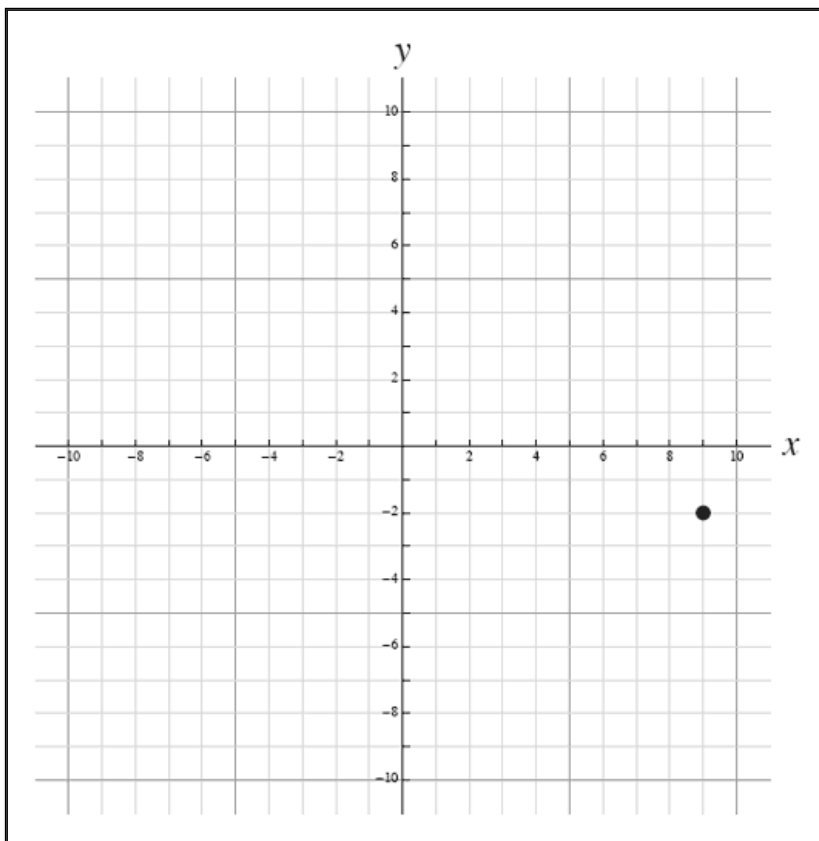
- A) Shape A
- B) Shape B
- C) Shape C
- D) Shape D

Correct. Your answer=B, Correct answer=B

Explanation:

Reflecting an object means it will flip across a line, so we know that the shorter line will be on top. Reflecting it across the horizontal x -axis will put the object into the lower right quadrant. Therefore (B) is correct.

10.



What are the coordinates of the point shown?

- A) (9, 2)
- B) (2, -9)
- C) (9, -2)
- D) (-9, -2)

Incorrect. Your answer=B, Correct answer=C

Explanation:

Starting from the origin, the point is located 9 units *right* and 2 units *down*, so the coordinates of the point are (9, -2).

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