

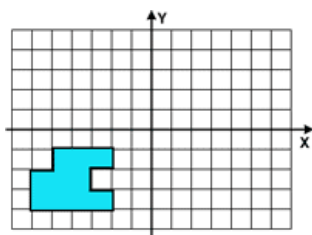
## Tutor Doctor

## Math 7: Geometry and Spatial Sense, 10 Questions

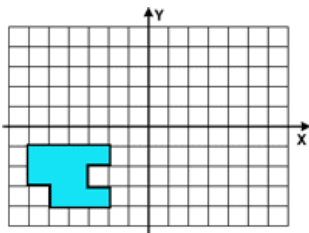
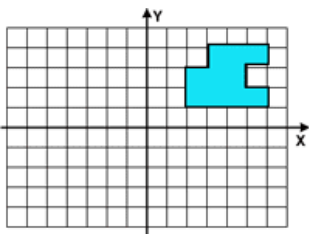
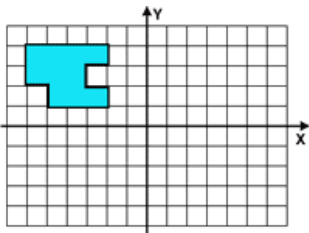
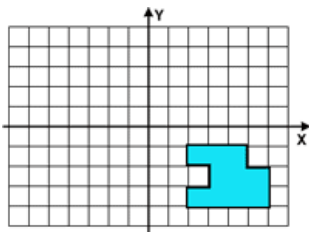
Please wait until the exam has fully loaded in your web browser before starting. **Do not** press "Submit" at the end of the exam until you are sure of your responses, as your test will be graded immediately. Good luck!

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?

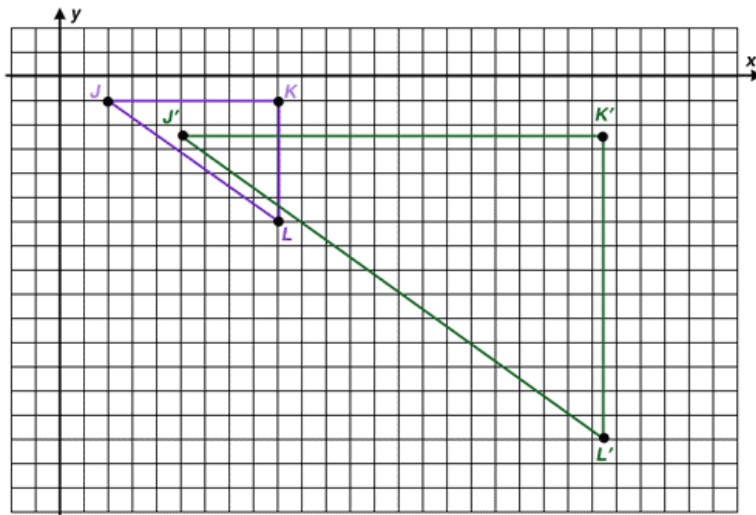
☐ A)☐ B)☐ C)☐ D)

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

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

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

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

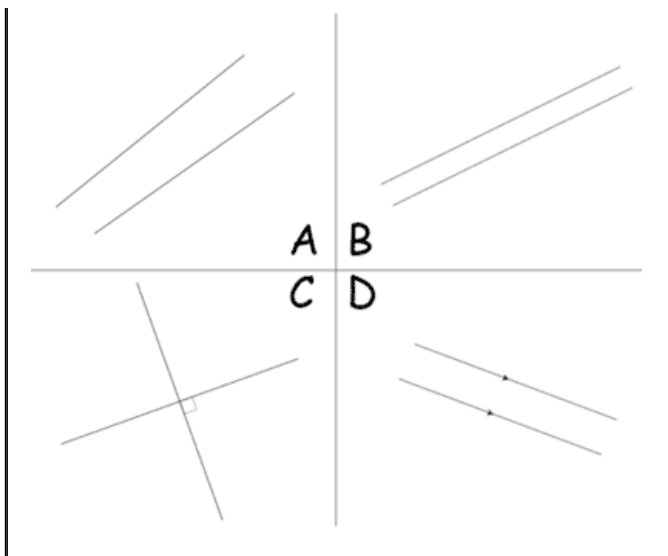
- ☐ A) An isosceles, right triangle
- ☐ B) An obtuse, right triangle
- ☐ C) An equilateral, right triangle
- ☐ D) An equilateral, acute triangle

5. The point (1, 17) is rotated by an angle of  $90^\circ$  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)

6.

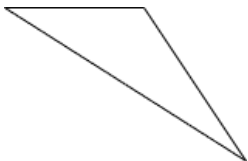




Which part of the diagram shown above has the pair of lines communicated to be parallel?

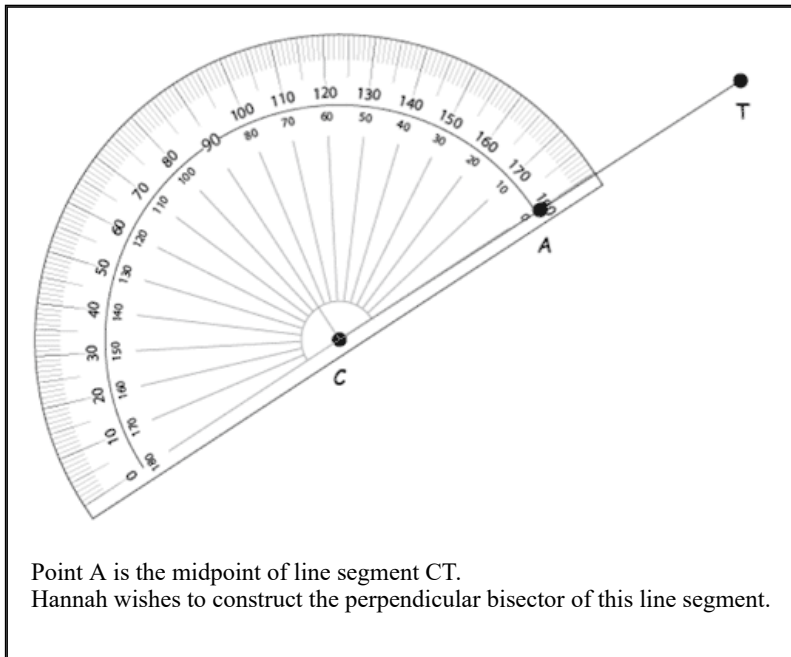
- ☐ A) A
- ☐ B) B
- ☐ C) C
- ☐ D) D

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

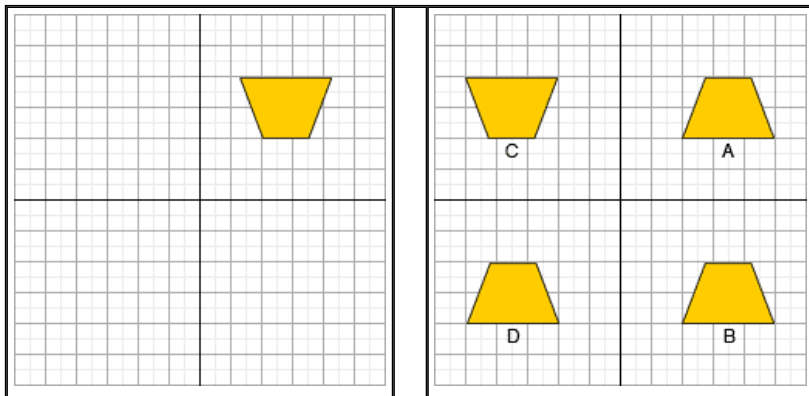
8.



In order to do this she should:

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

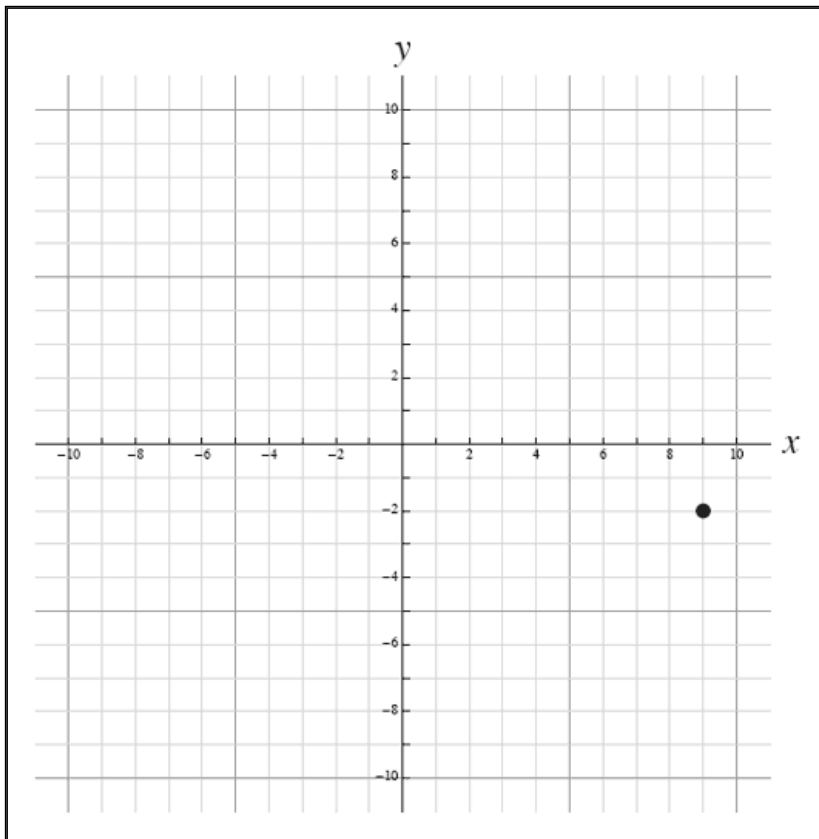
9.



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

10.



What are the coordinates of the point shown?

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

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