

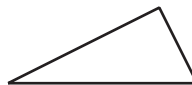
Properties of Two-dimensional Shapes: End-of-Unit Assessment

1. Select all right triangles.

A.



B.



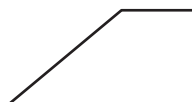
C.



D.



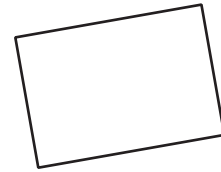
E.



2. Which statement is true?

- A. A right triangle never has a line of symmetry.
- B. A right triangle sometimes has a line of symmetry.
- C. A right triangle always has a line of symmetry.
- D. If a triangle has a line of symmetry then it is a right triangle.

3. a. Is the shape a rhombus? Is it a rectangle? Explain how you know.



- b. Is the shape a rhombus? Is it a square? Explain how you know.

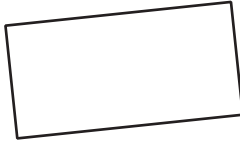


4. Select **all** true statements.

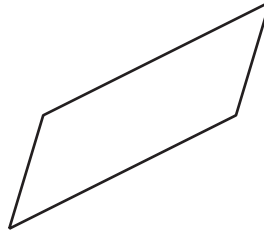
- A. All rhombuses have a right angle.
- B. All rectangles have a right angle.
- C. Lines containing opposite sides of rectangles are parallel.
- D. Some rhombuses have an obtuse angle.
- E. Some rectangles have an obtuse angle.

5. For each shape, draw **all** lines of symmetry.

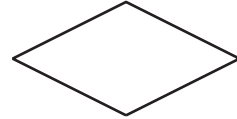
a.



b.



c.



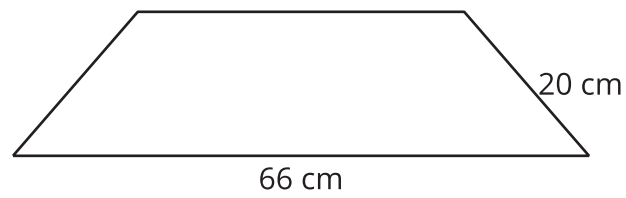
6. Elena, Tyler, and Mai each are making a frame for artwork so that:

- the frame is a quadrilateral
- the perimeter is 146 cm

a. Elena says she can make a square frame where each side has length 37 cm. Do you agree with Elena? Explain or show your reasoning.

b. Tyler says he is going to make a rectangular frame whose length is 29 cm. What will the width of Tyler's frame be? Explain or show your reasoning.

c. Mai decided to make this frame that has a line of symmetry.



What are the other two side lengths of Mai's frame? Explain or show your reasoning.