

# Assignment

## Write

Explain what a conjecture is and how it is used in math.

## Remember

If two figures are congruent, all corresponding sides and all corresponding angles have the same measure.

## Practice

1. Determine which figures are congruent to Figure A. Follow the steps given as you investigate each shape.

- Make a conjecture about which figures are congruent to Figure A. **C, D, E**
- Use patty paper to investigate your conjecture.
- Justify your conjecture by stating how you can move from Figure A to each congruent figure by sliding, flipping, or spinning Figure A.

Figure A

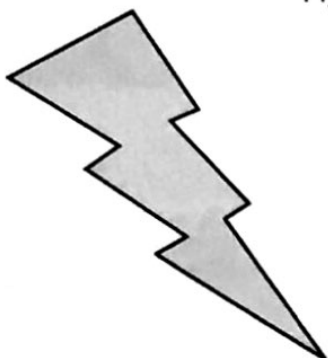


Figure B

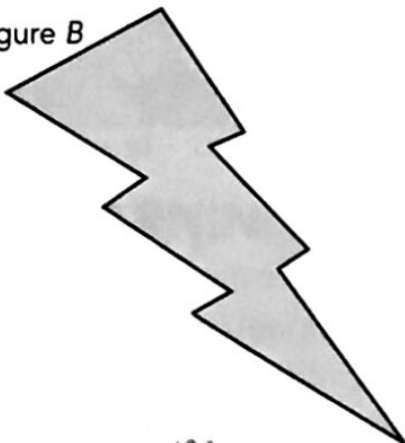


Figure C

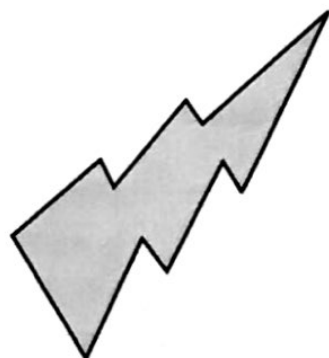


Figure D

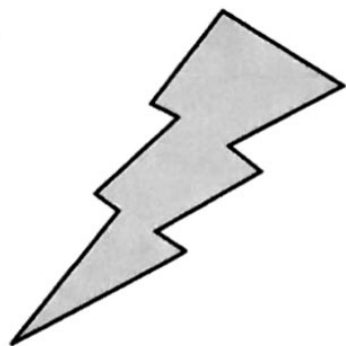


Figure E

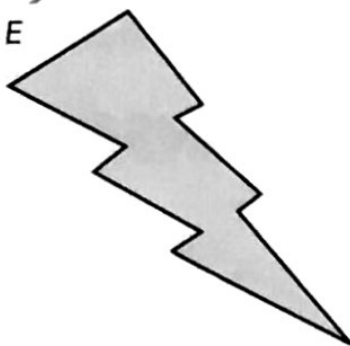


Figure F



No

Yes, spin & slide

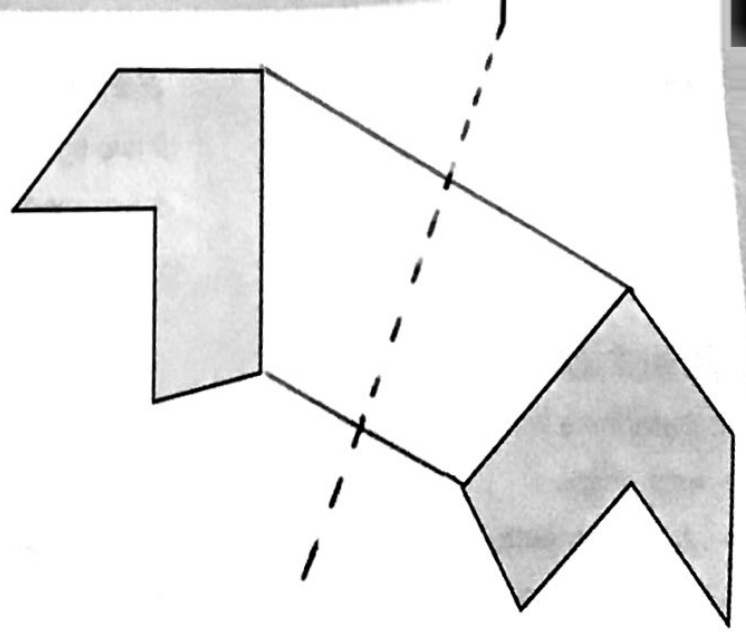
Yes, flip & slide

Yes, slide

No

## Stretch

The figure on the left was reflected, or flipped, over a *line of reflection* to create the figure on the right. Determine the location of the line of reflection.



## Review

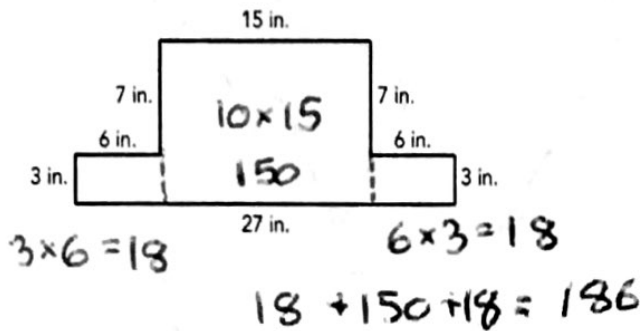
1. Determine each sum or difference.

a.  $-14 + 25 = 11$

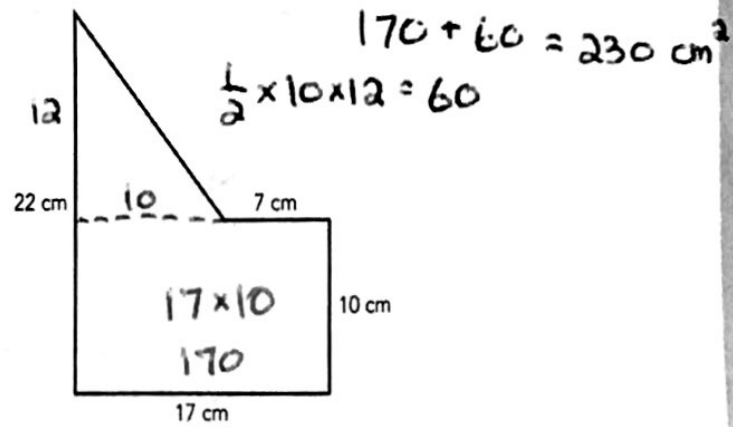
b.  $-14 - 25 = -39$

2. Calculate the area of each figure.

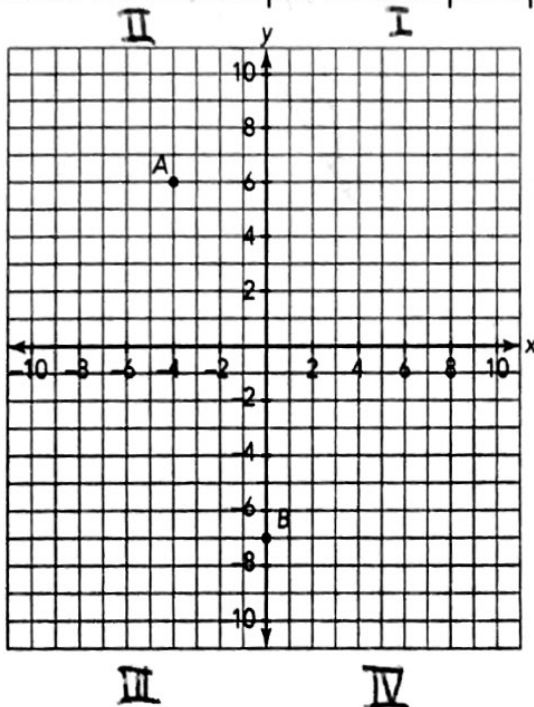
a.



b.



3. Write the ordered pair for each point plotted on the coordinate plane.



A (-4, 6)

B (0, -7)