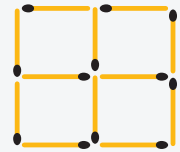


1 This shape includes 12 matchsticks. (To solve these puzzles all matches remaining must connect to other matches at both ends.)

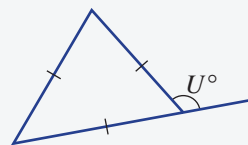
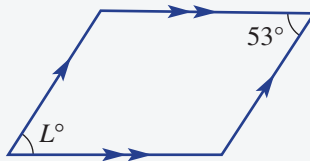
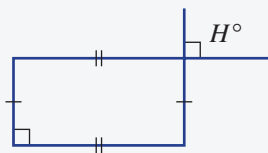
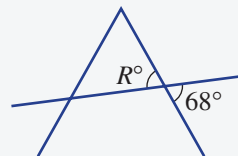
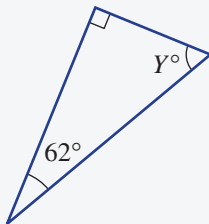
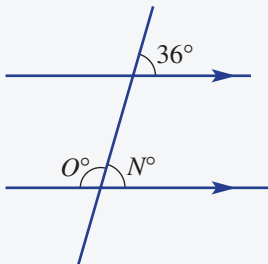
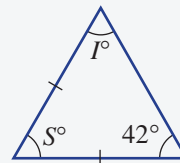
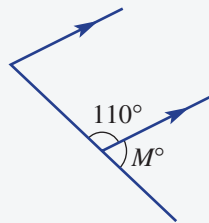
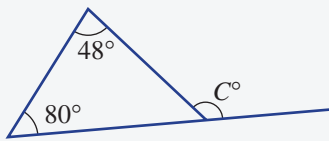
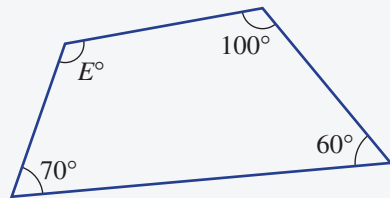
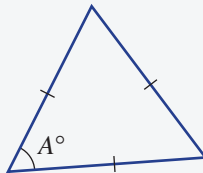
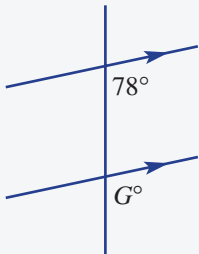


- a Remove 2 matchsticks to form 2 squares.
- b Move 3 matchsticks to form 3 squares.

2 a Use 9 matchsticks to form 5 equilateral triangles.
 b Use 6 matchsticks to form 4 equilateral triangles.

3 Who am I?

I was a female mathematician famous for her work and publications on geometry. Use your answers to the following to unlock the puzzle code.



78 68 60 128 130 128 90 42 96 90 144 53 70 28 144 120 36 78

4 Find the angle between the hour and minute hands on a clock at these times.

- a 11:30 am
- b 7:45 pm
- c 6:55 pm
- d 2:34 am

