CHALLENGE 1

MATCHSTICK GEOMETRIC SHAPES

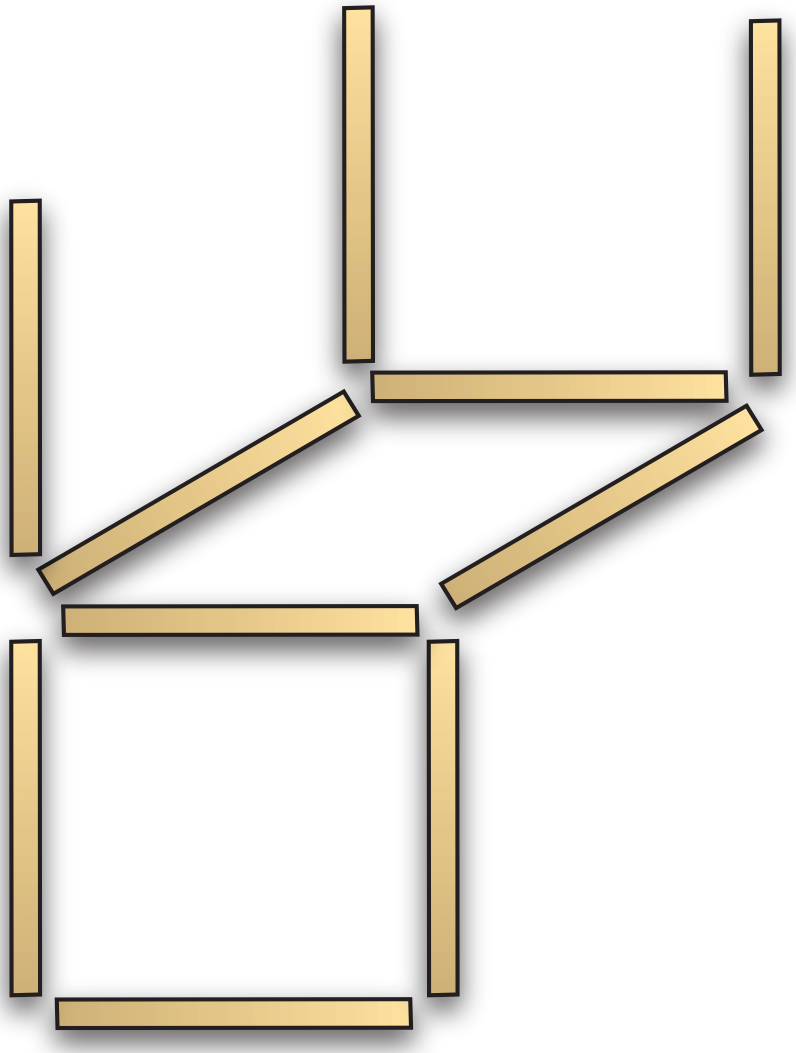
Upright the Chair

Puzzle Set Up

Arrange the 10 sticks as shown in the illustration.

Your Goal

Move TWO matchsticks to create an upright chair.



CHALLENGE 2

MATCHSTICK GEOMETRIC SHAPES

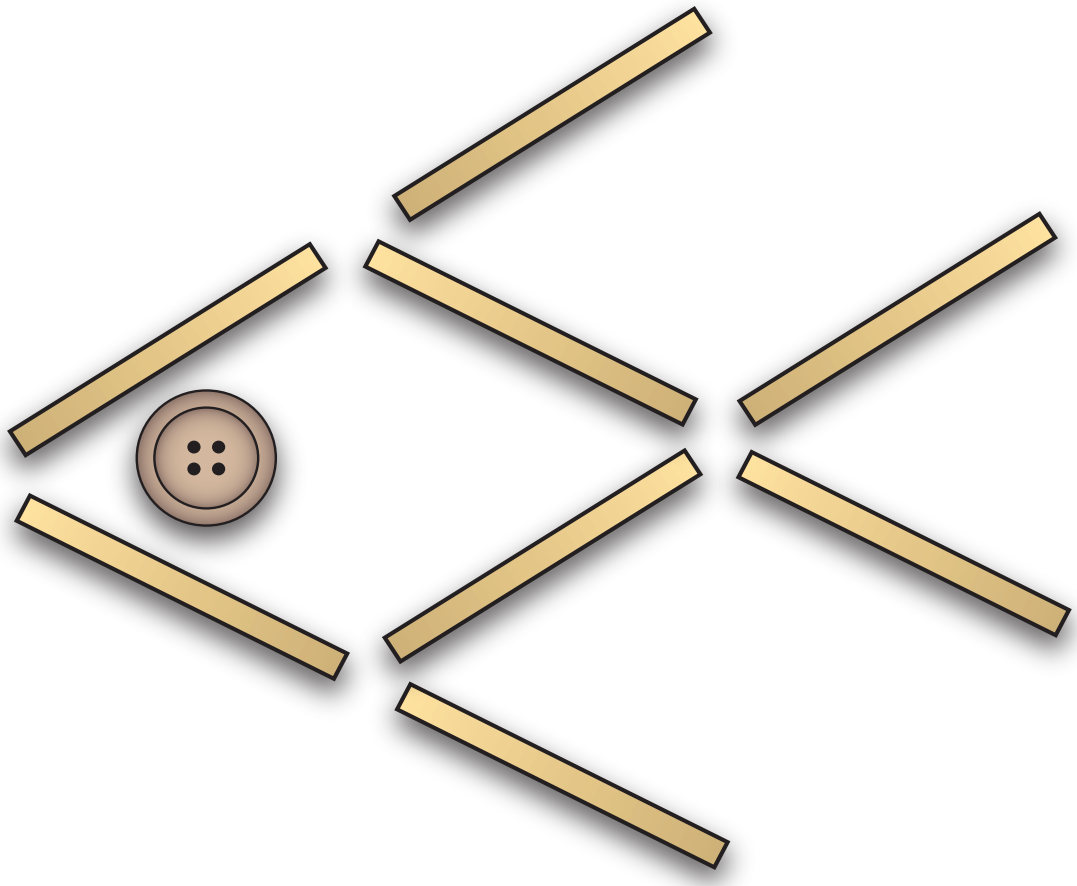
Turn the Fish

Puzzle Set Up

Arrange the 8 sticks and button to form an image of a fish swimming, as shown in the illustration.

Your Goal

Move THREE matchsticks and the fish eye, to make the fish swim in the opposite direction.

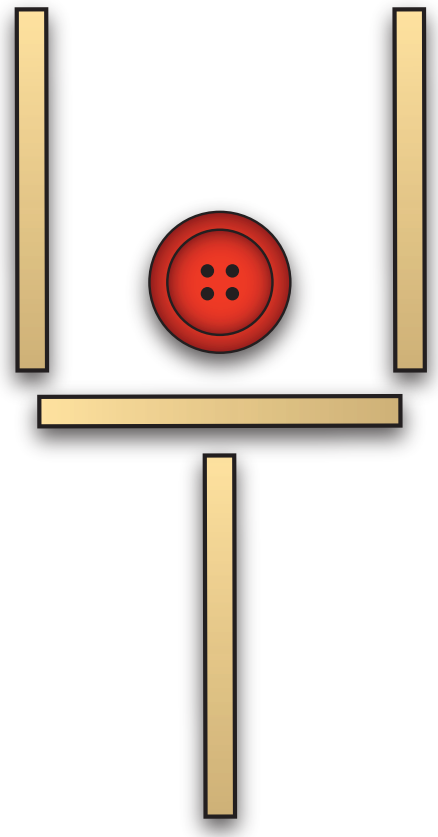


MATCHSTICK GEOMETRIC SHAPES

Cherry in the Glass

Arrange the 4 sticks to form the image shown in the illustration.

Move TWO matchsticks to get the cherry out of the sundae glass. The glass may be turned in a new direction, but the cherry will not move and must end up outside the glass.



CHALLENGE 4

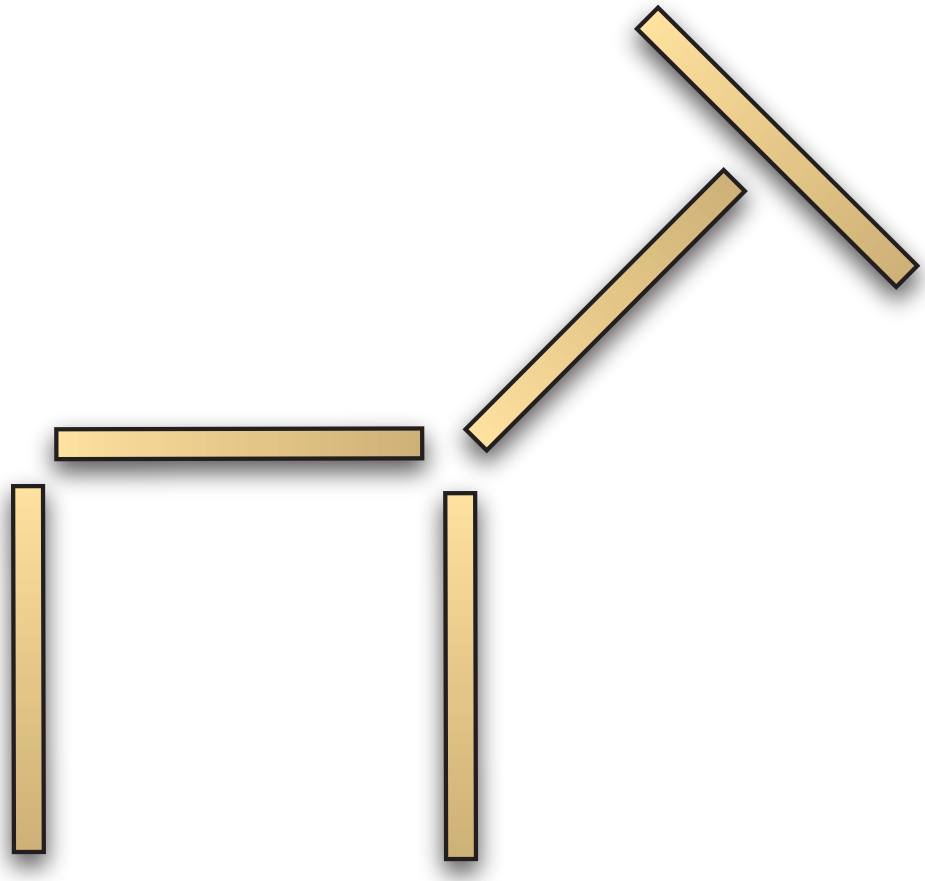
MATCHSTICK GEOMETRIC SHAPES

Giraffe

Puzzle Set Up

Arrange 5 sticks to form the image of a giraffe shown in the illustration.

Move only ONE stick so that the shape of the the giraffe is the same, but with the giraffe facing in another direction.



CHALLENGE 5

MATCHSTICK GEOMETRIC SHAPES

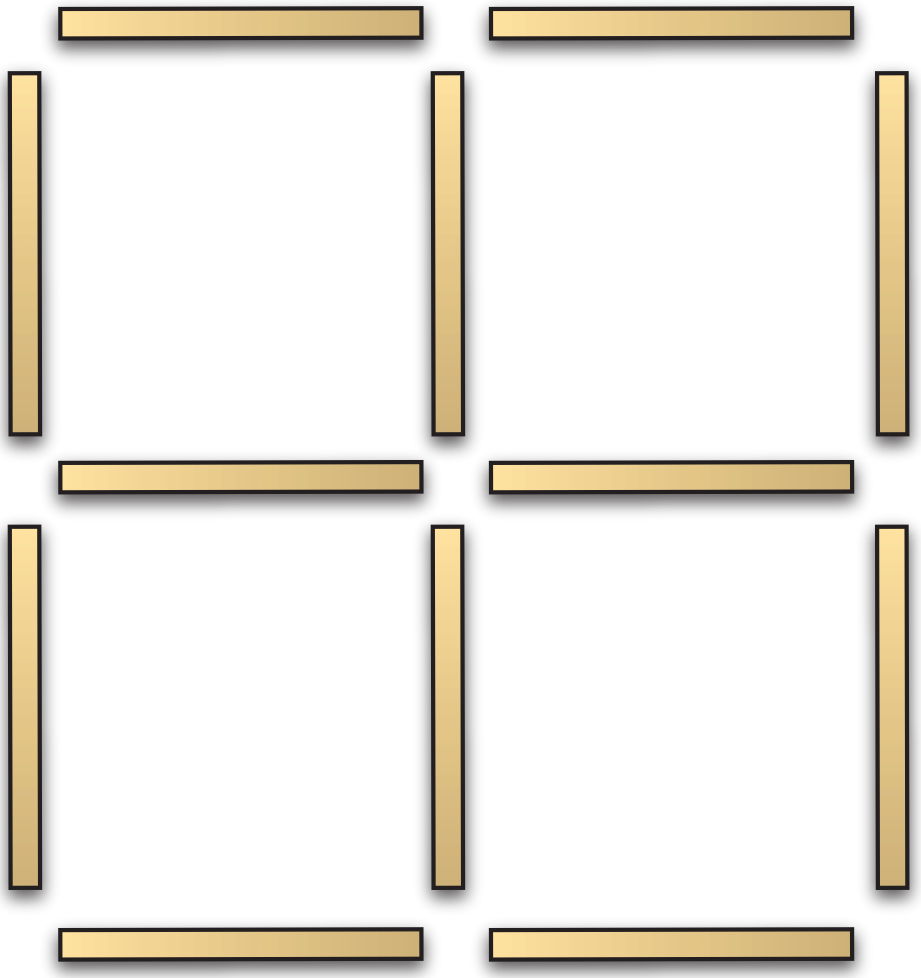
Square Root

Puzzle Set Up

Place the 12 sticks into the start position as shown in the illustration below, with 4 squares.

Your Goal

Remove TWO sticks from this pattern of sticks so that only two squares remain.



CHALLENGE 6

MATCHSTICK GEOMETRIC SHAPES

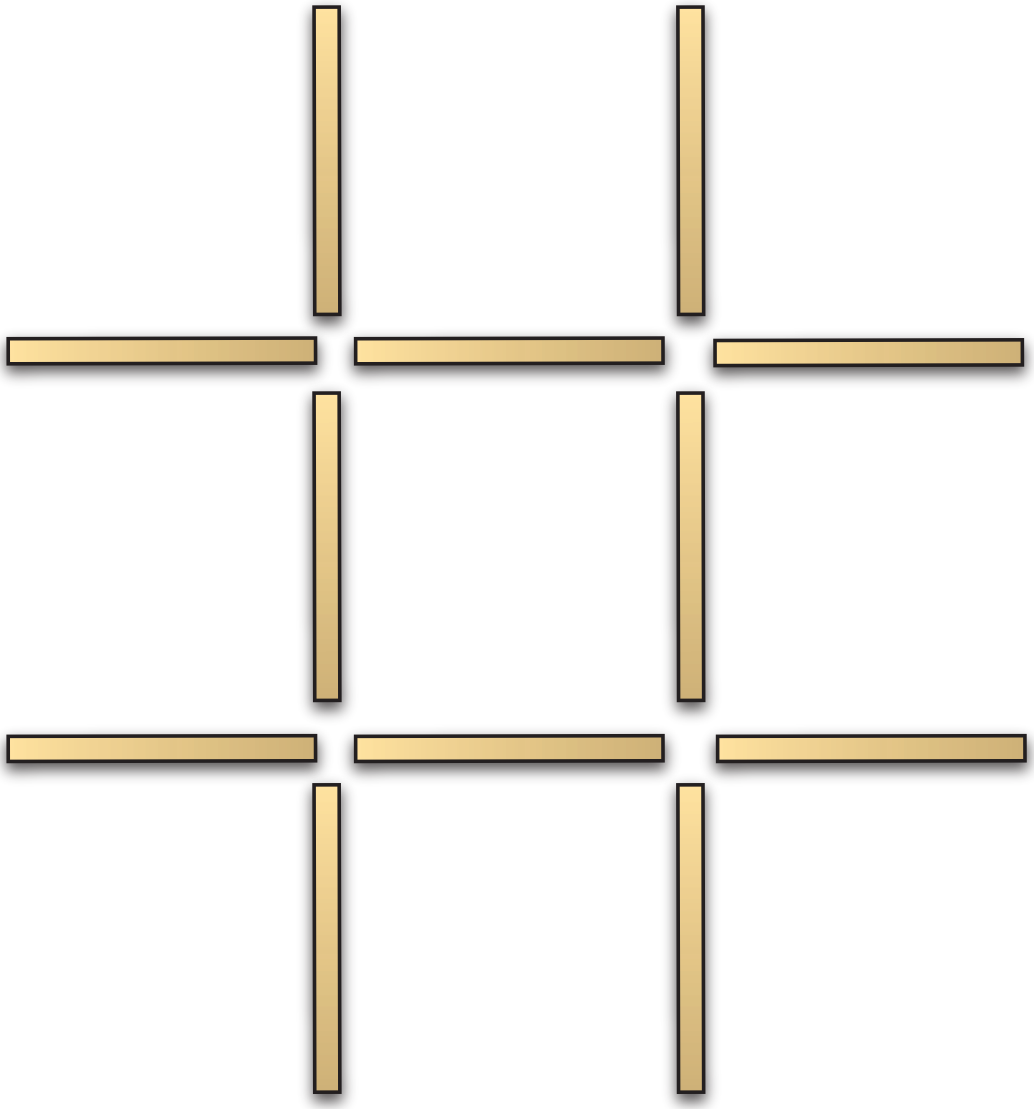
Beware 3 Squares

Puzzle Set Up

Arrange 12 sticks as shown in the illustration.

Your Goal

Move THREE matchsticks to make 3 identical squares.



CHALLENGE 7

MATCHSTICK GEOMETRIC SHAPES

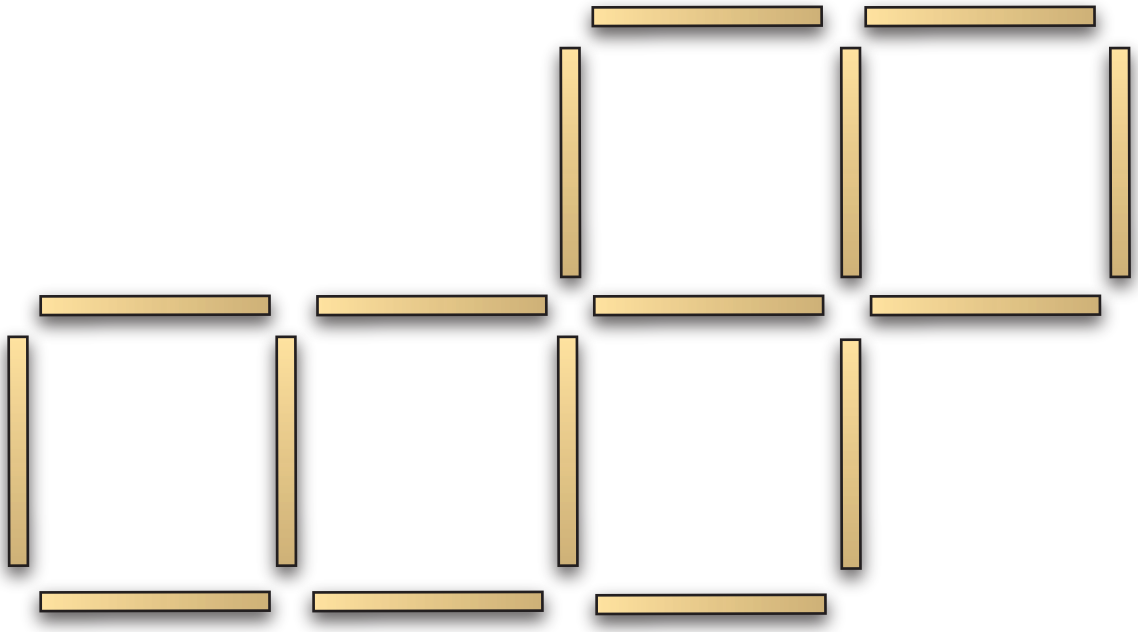
Square Dance

Puzzle Set Up

Arrange 16 sticks to make 5 squares as shown in the illustration below.

Your Goal

Move TWO sticks to new positions to get exactly 4 identical squares instead of 5.



CHALLENGE 8

MATCHSTICK GEOMETRIC SHAPES

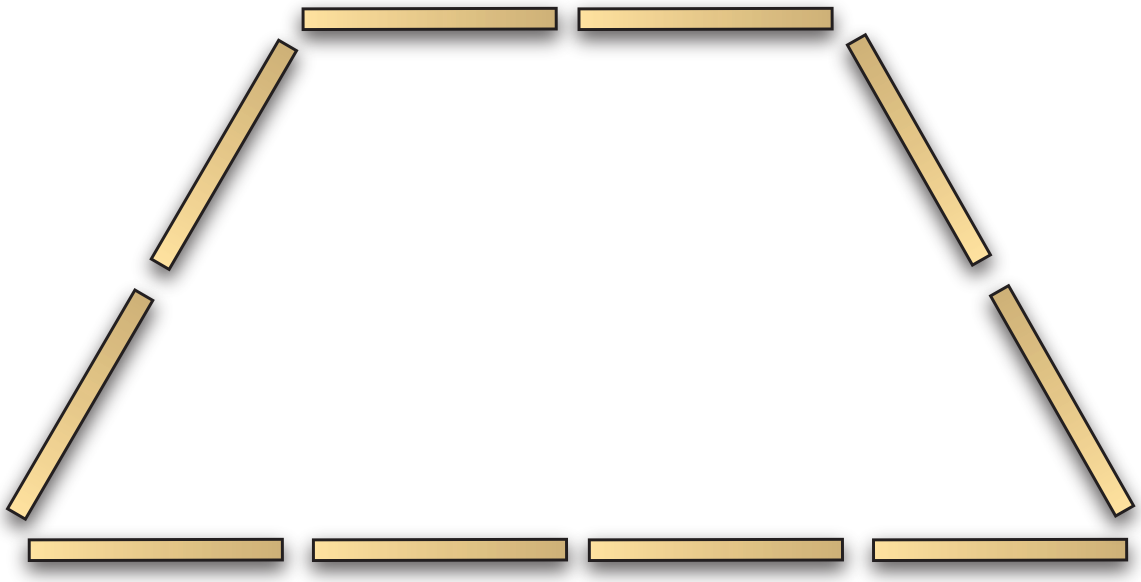
Trapezoid Trap

Puzzle Set Up

Arrange the 10 sticks to form an image shown in the illustration.

Your Goal

Add FIVE more sticks to create 5 trapezoids without moving the original 10 sticks.



HINTS

MATCHSTICK GEOMETRIC SHAPES

OBJECTS

Challenge 1 - Upright the Chair

- Notice that the body of the Fish uses 4 sticks in the shape of a diamond. Can you see another diamond by moving only 1 stick?

Challenge 2 - Turn the Fish

- Notice that the body of the Fish uses 4 sticks in the shape of a diamond. Can you see another diamond by moving only 1 stick?

Challenge 3 - Cherry in the Glass

- One move is really just a half move (or slide).

Challenge 4 - Giraffe

- The body of the Giraffe is three sides of a square. Can you see how another three sides could be used of thatsquare by only moving 1 stick?

GEOMETRICAL SHAPES

Challenge 5 - Square Root

- The two squares do NOT have to be the same size.

Challenge 6 - Beware 3 Squares

Challenge 7 - Square Dance

- Do you notice that there are 16 sticks? Since you want 4 squares, $16 \div 4 = 4$ means that each square will need to use 4 sticks. This means that NO two squares will share a stick! Thus no two squares will be side-by-side! Do you see how four squares can be created NOT side-by-side in the layout? (further hint: think diagonally)

Challenge 8 - Trapezoid Trap