# Sticks, Coins & More...

- Sticking Away Squares ☆
- Triangle Tricks ☆
- Shuffle the Sticks! ☆
- Stick Spiral ☆
- Like a Fish in Water ☆☆
- Jump & Pile ☆☆
- Turn the Triangle ☆☆
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- Mathematical Sticks ☆☆☆
- Solitaire ☆☆☆
- Stick Tricks ☆☆☆
- Tricky Sticks ☆☆☆

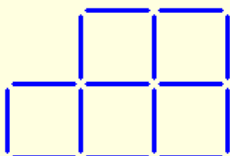The puzzles are marked with stars (☆) that show the degree of difficulty of the given puzzle.

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## Sticking Away Squares ☆
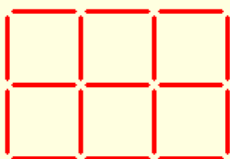
Here you see five equal squares.



❓ **The Question**: Can you leave just three squares by taking away three sticks?

❗ **The Answer**: *Click here!...*

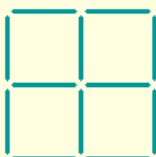❓ **Another Question**: Here you see six equal squares.



Can you leave just three squares by taking away five sticks?
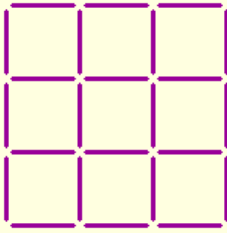
❗ **Another Answer**: *Click here!...*

❓ **Yet Another Question**: Can you leave two complete squares only, by taking away two sticks from the pattern shown below?
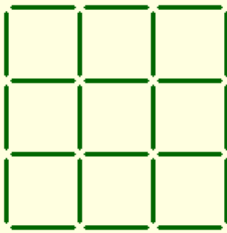
**!** **Y**et Another Answer: *Click here!...*

**?** **T**he **Fourth Question**: Can you leave two complete squares only, by taking away eight sticks from the pattern shown below**?**
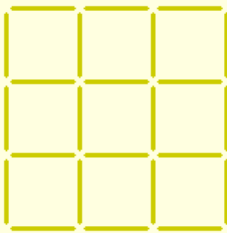
**!** **T**he **Fourth Answer**: *Click here!...*

**?** **T**he **Fifth Question**: Can you leave six squares only, by taking away eight sticks from the pattern shown below**?**

**!** **T**he **Fifth Answer**: *Click here!...*

**?** **T**he **Sixth Question**: Can you leave three squares only, by taking away six sticks from the pattern shown below**?**

**!** **T**he **Sixth Answer**: *Click here!...*

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# **T**riangle **T**ricks ☆

**S**ixteen sticks form eight equal triangles.
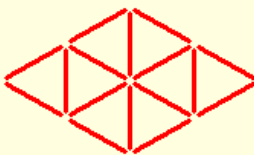
**?** **T**he **Question**: Can you take away four sticks and leave only four of these triangles**?**

**!** **T**he **Answer**: *Click here!...*

**?** **A**nother **Question**: Thirteen sticks form eight triangles (six small ones and two large ones).

**C**an you take away three sticks and leave only three triangles**?**

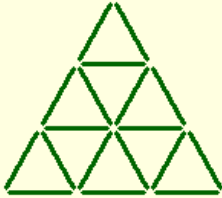**A**nother **A**nswer: *Click here!...*

**Y**et **A**nother **Q**uestion: The nine sticks shown below form three equal triangles.



**H**ow can two sticks be moved to make four equal triangles**?**

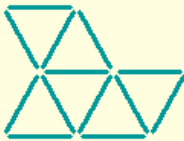**Y**et **A**nother **A**nswer: *Click here!...*

**T**he **F**ourth **Q**uestion: The eighteen sticks shown below form thirteen triangles (nine small ones, three medium ones, and a large one).



**C**an you leave only seven of these thirteen triangles by taking away just three sticks**?**

**T**he **F**ourth **A**nswer: *Click here!...*

**T**he **F**ifth **Q**uestion: These thirteen sticks form six equal triangles.



**C**an you leave only three of these six triangles by removing four sticks**?**

**T**he **F**ifth **A**nswer: *Click here!...*

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# △ **S**huffle the **S**ticks! ☆

**T**he **Q**uestion: Can you rearrange the five sticks to make two equal triangles**?**



**T**he **A**nswer: *Click here!...*

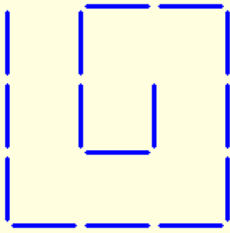**A**nother **Q**uestion: Can you make five triangles by rearranging the nine sticks shown below**?**



**A**nother **A**nswer: *Click here!...*

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# Stick Spiral ☆

These fifteen sticks form a spiral.

**The Question**: Can you turn this spiral into two squares by moving exactly three sticks**?**

**The Answer**: *Click here!...*

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# Like a Fish in Water ☆☆

Here you see a fish swimming to the left.

**The Question**: Can you make the fish swim to the right by moving only three sticks**?**

**The Answer**: *Click here!...*

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# Jump & Pile ☆☆

Below you see ten coins in a row. The goal is to make five piles of two coins. You must, however, jump over two other coins (these can be two coins next to each other, but also two piled coins!) to place a coin on top of another coin. You may jump only with coins that have not been piled yet.

Reset

**The Question**: How can this be done**?**

**A Hint** : By clicking on the small arrows, you can move the coins in the desired direction.
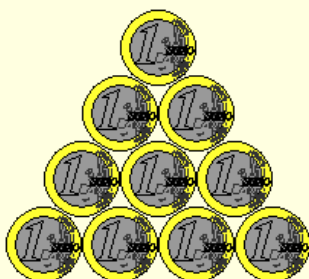
**The Answer**: *Click here!...*

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# **T**urn the **T**riangle ⭐⭐

**H**ere you see a triangle formed by ten coins. The triangle points upwards.



**T**he **Question**: How can just three coins be moved to make the triangle point downwards**?**

**T**he **Answer**: _**Click here!...**_

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# **S**torm-**D**amage ⭐⭐

**P**easant Janet kept six pigs in six pens of equal size, made with thirteen wooden fences (see the picture below).



**O**ne night, there was a terrible storm, in which one of the thirteen fences was badly damaged. Janet rearranged the remaining fences so that the six pigs still each had pens of equal size.

**T**he **Question**: How did she do that**?**

**T**he **Answer**: _**Click here!...**_

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# **H**omework ⭐⭐

**T**he **Question**: Can you draw this house in one stroke (i.e., without lifting the pen from the paper) and without crossing an already drawn part**?**



**T**he **Answer**: _**Click here!...**_

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# In or Out ⭐⭐

Below you see a glass formed by four sticks. In the glass, there is a coin.

**The Question**: Can you move just two sticks to place the coin out the glass?

**The Answer**: *Click here!...*

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# Sunny Summer ⭐⭐⭐

The square cards below must be arranged into one large square. Two cards may, however, only be laid against each other if the (half) suns are of the same color.

Reset

**The Question**: How can this be done?

**A Hint** : You can drag the cards over the field using your mouse. It is also possible to move all cards together by "dragging" the field.
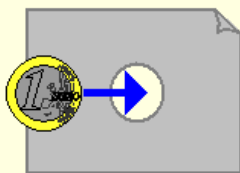
**The Answer**: *Click here!...*

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# Penny through the Paper ✩✩✩

Take a coin from your wallet (a 1 or 2 Euro piece works best).

Take a piece of paper and cut a circular hole in it middle, which is slightly smaller than the size of the coin (a diameter which is roughly 80% of the diameter of the coin, see picture).
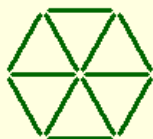


**The Question**: How can you get the coin through the hole without breaking or cutting the paper?

**The Answer**: *Click here!...*

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# Six-Sided Stick Shape ✩✩✩

The twelve sticks shown below form a six-sided shape containing six triangles.



**The Question**: Can you make three triangles by moving four sticks?

**The Answer**: *Click here!...*

**Another Question**: Starting with the same six-sided shape, can you make four equal rhombs by moving exactly *three* sticks?
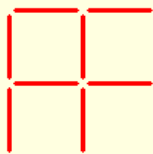
**Another Answer**: *Click here!...*

**Yet Another Question**: Starting with the same six-sided shape, can you make four equal rhombs by moving exactly *four* sticks?

**Yet Another Answer**: *Click here!...*
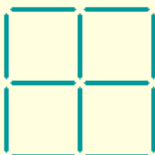
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# Squared Sticks ✩✩✩

Twelve sticks form four equal squares.

**The Question**: How can exactly four sticks be moved to make three equal squares?
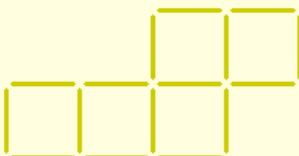
**The Answer**: *Click here!...*

**Another Question**: Twelve sticks form four equal squares.



How can exactly three sticks be moved to make three equal squares?
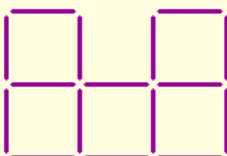
**Another Answer**: *Click here!...*

**Yet Another Question**: Sixteen sticks form five squares.



Can you make four squares from this by moving two sticks?
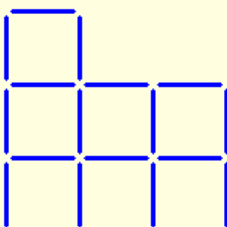
**Yet Another Answer**: *Click here!...*

**The Fourth Question**: Sixteen sticks form five squares.



Can you turn these five squares into four squares by moving three sticks?

**The Fourth Answer**: *Click here!...*

**The Fifth Question**: Twenty sticks form seven equal squares.



How can three sticks be moved to make five equal squares?

**The Fifth Answer**: *Click here!...*

**The Sixth Question**: By moving only two sticks, these three equal sized squares can be changed into four equal sized rectangles.



How can this be done?

**The Sixth Answer**: *Click here!...*
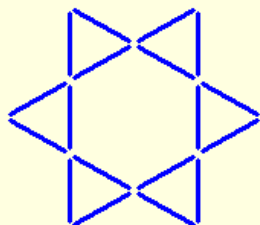
# Stick-at-Nothing! ⭐⭐⭐

Here you see six sticks.

The **Question**: Can you rearrange these six sticks to leave nothing?

The **Answer**: *Click here!...*

# Stick Stars ⭐⭐⭐

Eighteen sticks form a star with eight triangles (six small ones and two large ones).

The **Question**: How can just two sticks be moved to make four small triangles and two large ones?
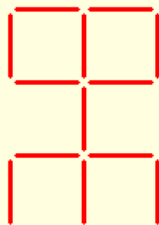
The **Answer**: *Click here!...*

**Another Question**: Starting with the same star, can you form six equal quadrilaterals by moving exactly six sticks?
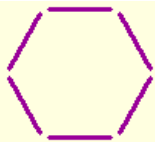
**Another Answer**: *Click here!...*

# Stick Shapes ⭐⭐⭐

There are four squares in the pattern shown below.

The **Question**: How can two sticks be moved to make five equal squares?

The **Answer**: *Click here!...*

**Another Question**: Below you see a hexagon formed by six sticks.

Can you turn this hexagon into two rhombs by moving two sticks and adding one?

**A**nother Answer: *Click here!...*

**Y**et Another Question: Can you make four equal triangles from the pattern shown below, by moving exactly four sticks?
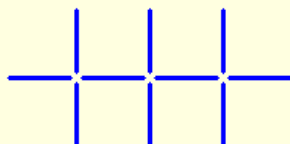
**Y**et Another Answer: *Click here!...*

**T**he Fourth Question: Twelve sticks form one square and four triangles.

Can you move six sticks to make three squares and one triangle?

**T**he Fourth Answer: *Click here!...*

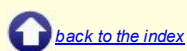**T**he Fifth Question: Can you make two squares from the pattern shown below, by moving four sticks?

**T**he Fifth Answer: *Click here!...*

**T**he Sixth Question: Can you make three equal squares from the pattern shown below, by moving just three sticks?

**T**he Sixth Answer: *Click here!...*

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# **T**ouching **S**ticks ☆☆☆
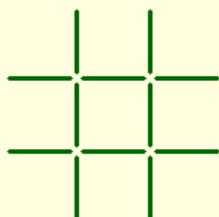
**T**he Question: How can these six sticks be arranged so that every stick touches every other stick?
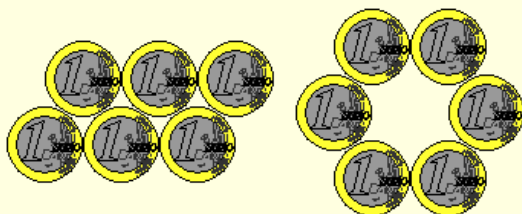
| | | | | | |

**T**he **Answer**: *Click here!...*

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## **C**uddling **C**oins ☆☆☆

**T**he pattern of coins shown on the left must be transformed into the pattern shown on the right, by moving exactly *three* coins, where at the end *of each move* each coin needs to touch with at least two other coins. The coins must be moved flat on the table (coins cannot move over each other).

**T**he **Question**: How can this be done**?**

**T**he **Answer**: *Click here!...*

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## **M**athematical **S**ticks ☆☆☆

**T**he **Question**: Can you balance the equation shown below, by moving exactly three sticks**?**

III — II = V

**T**he **Answer**: *Click here!...*

**A**nother **Question**: The equation shown below is not correct.

X I + I = X

**H**ow can you make this equation correct, without moving a single stick**?**

**A**nother **Answer**: *Click here!...*

**Y**et **Another Question**: In the equation shown below, **three** sticks are missing.

3 5 7 6 - 9

**W**here should the three missing sticks be placed to make the equation correct**?**

**Y**et **Another Answer**: *Click here!...*

**T**he **Fourth Question**: In the equation shown below, **four** sticks are missing.

$$3576 = 9$$

**W**here should the four missing sticks be placed to make the equation correct**?**

**T**he Fourth Answer: *Click here!...*

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## **S**olitaire ☆☆☆☆

**I**n this game, there are 32 pieces in a playing field with 33 places. You can only jump over a piece, if there is a free place directly behind this piece. You may jump horizontally or vertically. Every piece that has been jumped over, is removed from the field. The goal of this game is to leave exactly one piece, in the middle of the playing field.

Reset
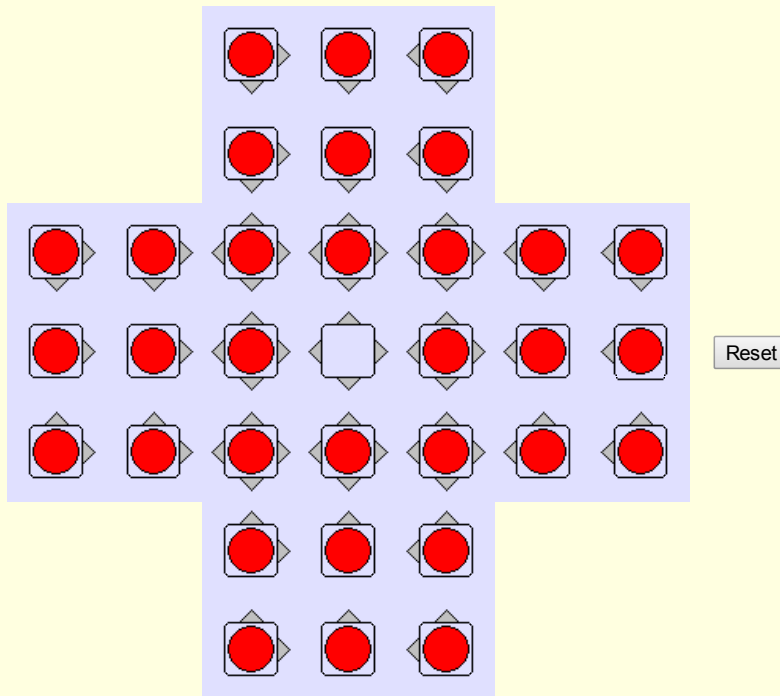
**T**he Question: How can this be done**?**

**A** Hint : By clicking on the small arrows, you can move the pieces in the desired direction.

**T**he Answer: *Click here!...*

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## **S**tick **T**ricks ☆☆☆☆

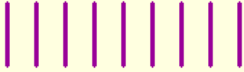**T**he Question: How can eleven sticks be rearranged to make nine (without taking any away)**?**

**T**he Answer: *Click here!...*

**?** **A**nother Question: Can you rearrange these three sticks to make nine**?**

| | |

**!** **A**nother Answer: *Click here!...*

**?** **Y**et Another Question: How can nine sticks be rearranged to make ten**?**

| | | | | | | | |

**!** **Y**et Another Answer: *Click here!...*

**?** **T**he Fourth Question: Can you rearrange these five sticks to make fourteen**?**

| | | | |

**!** **T**he Fourth Answer: *Click here!...*

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# △ **T**ricky **S**ticks ☆☆☆☆

**?** **T**he Question: Can you rearrange the nine sticks to make a pattern containing three squares**?**

| | | | | | | | |

**!** **T**he Answer: *Click here!...*

**?** **A**nother Question: These twelve sticks form five squares (four small ones and a large one). How can two sticks be moved to make seven squares**?**
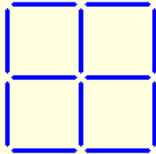
**!** **A**nother Answer: *Click here!...*

**?** **Y**et Another Question: Can you make four equal triangles, of the same size as the triangles shown below, using just six sticks**?**
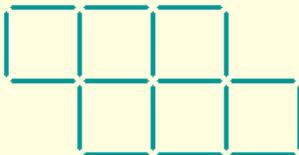
△△

**!** **Y**et Another Answer: *Click here!...*

**?** **T**he Fourth Question: Can you rearrange these eight sticks to make two squares and four triangles**?**

| | | | | | | |

**!** **T**he Fourth Answer: *Click here!...*

**?** **T**he Fifth Question: In the pattern shown below, you see six equal squares.

Can you make a pattern containing only three squares by moving four sticks**?**

**T**he Fifth Answer: *Click here!...*

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