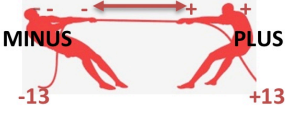


## TUG OF WAR

### TUG OF WAR



Game for 2 players

Start at 0. Take it in turns to throw 2 dice. Add the scores and move a counter that number of places on the number line in your direction. To win MINUS must land exactly on -13 and PLUS must land on +13.

This is a game for 2 players, call yourselves Minus and Plus. You need 2 dice or a spinner and a counter. Draw a number line from -13 to +13.

Place the counter on zero. Take it in turn to throw the dice, add the scores and move the counter that number of places on the number line in your direction. To win Minus must land exactly on -13 and Plus must land exactly on +13. If your score would overshoot then you don't move at all. No calculators allowed.



You can play with different rules. Do you prefer the game so that you only have to reach +13 or -13, and it's OK to overshoot? Why?

In the **TUG MUCH HARDER** game you can choose whether to add, subtract, multiply or divide the 2 scores (in either order) and, if the answer is a whole number, you can use it to move the counter. If your opponent challenges you, and you have done the calculation wrongly, then the counter goes 3 spaces towards your opponent's goal.

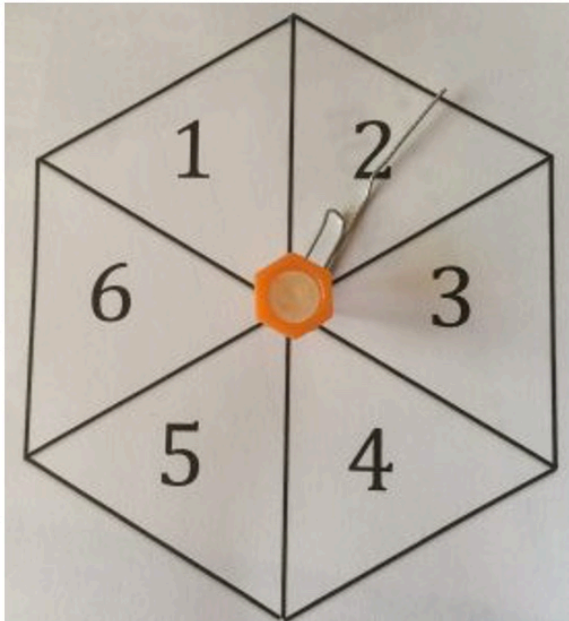
## HELP

You can use a calculator, but only to check answers. If you are challenged and you got the calculation wrong, the counter goes 3 spaces towards your opponent's goal

**NEXT**

**TWO-WAY WAR**

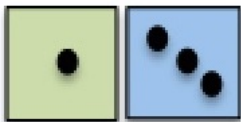
**Make your own spinner if you don't have dice**



You'll need a paper clip, a pin and scrap card.

Draw a regular hexagon or print this, prick through the corners and centre of the diagram, and join the points with straight line segments.

Write numbers in then cut out your spinner.



Use coloured dice. Make one die positive and the other negative. With a spinner, take the first spin to be positive and the second negative.

The rules for **TWO-WAY WAR** are that each player can use addition, subtraction, multiplication or division, in any order as long as the result is a whole number.

With green positive and the blue negative as shown, the possibilities are:

- Addition  $+1 + -3 = -2$  and  $-3 + +1 = -2$
- Subtraction  $+1 - -3 = +4$  (best choice for Plus) or  $-3 - +1 = -4$  (best choice for Minus)
- Multiplication  $+1 \times -3 = -3$  or  $-3 \times +1 = -3$
- Division  $-3 \div +1 = -3$