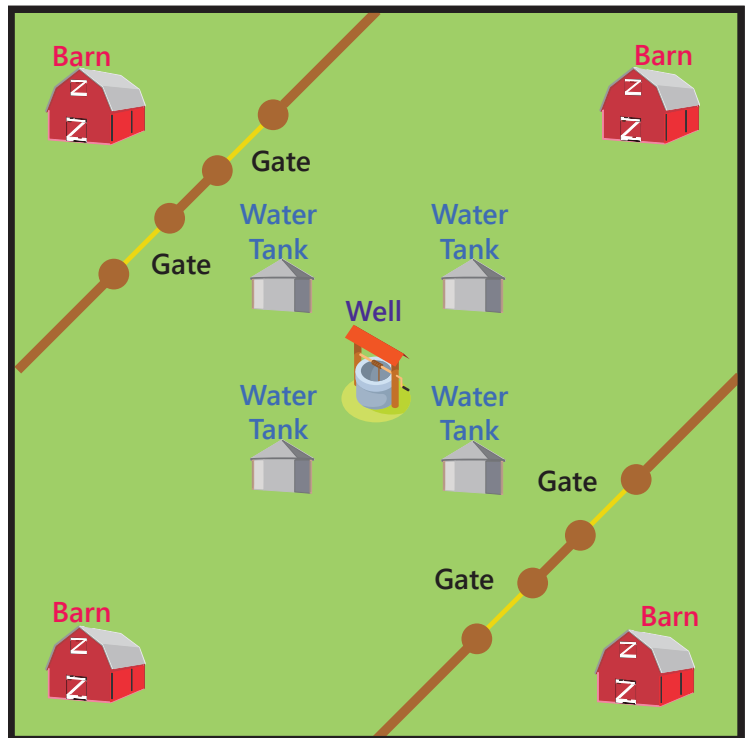


MATHMAG

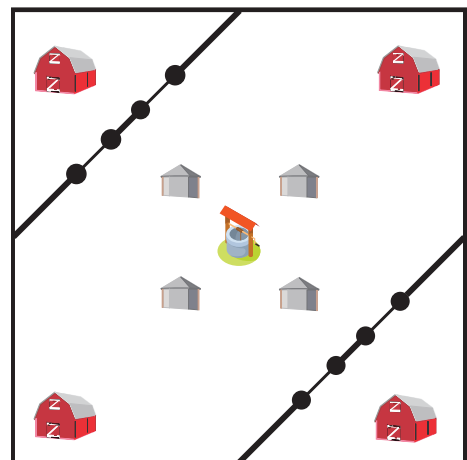
1. FAIR'S FAIR

Four children inherited a farm. On it there was four barns, four gates and four water tanks, with one well in the centre. The property was fenced all around and diagonally across two corners. A single well in the middle of the property was used to irrigate the paddocks.



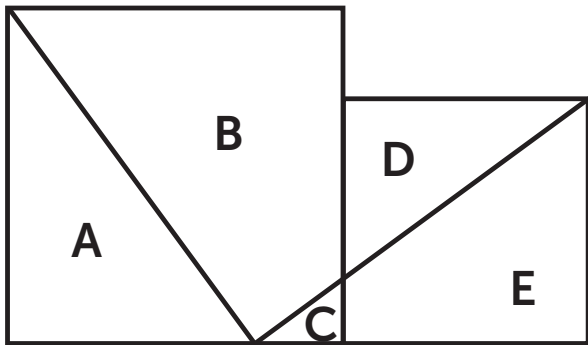
Try to divide the farm so that each person receives:

- an equal area of land
- one barn
- one tank
- one gate
- an equal length of diagonal fence
- access to the well



2. TWO INTO ONE

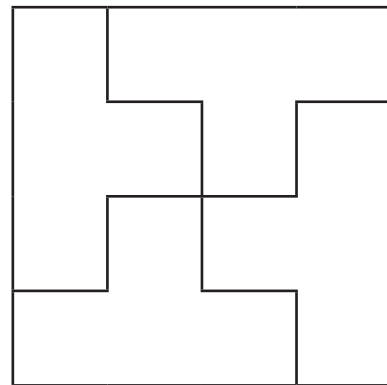
Cut the two squares into five pieces.



Re-form the pieces to make one large square.

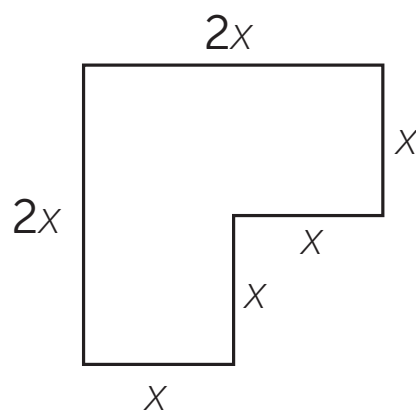
3. GREEK CROSS PUZZLE

Cut a square into four pieces in the manner shown, then put these four pieces together so as to form a symmetrical Greek cross.

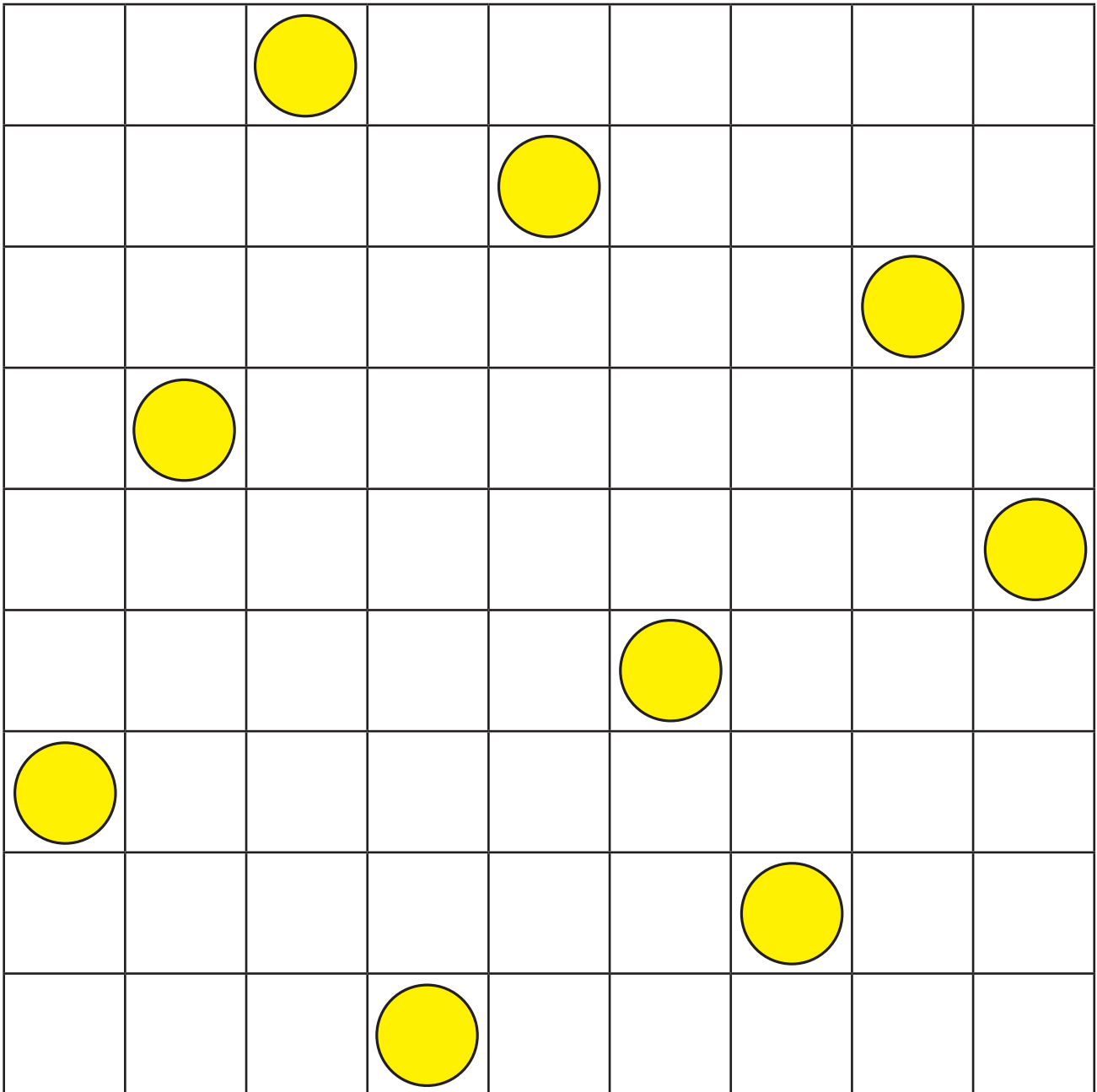


4. CUT IT OUT

A farmer with four sons owned property in the shape shown below. When he died, his will declared that his land should be divided among his sons so that each would receive the same amount of land and that each son's land should be the same shape. How can this be done?



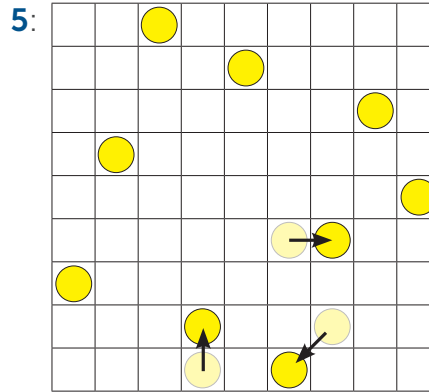
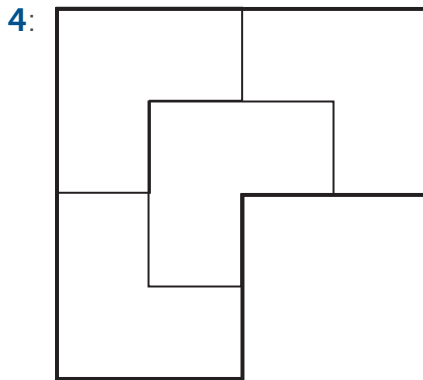
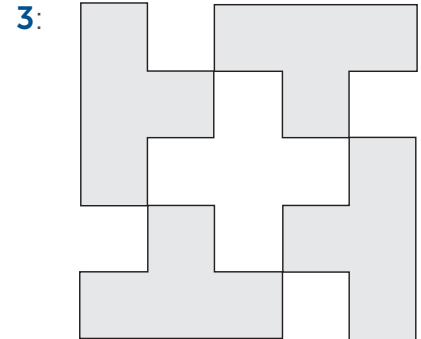
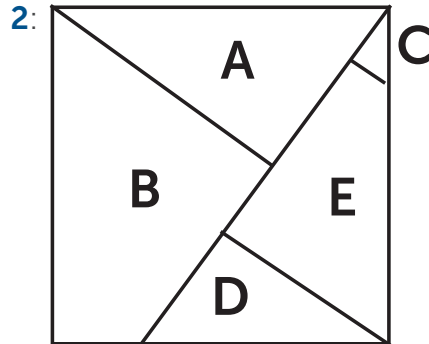
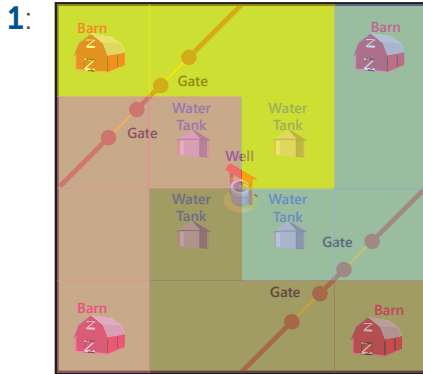
5. COUNTERS IN CUPS



There are nine counters placed on the grid. No counter is in line with another counter horizontally, vertically or diagonally.

Six counters remain in place. Three counters are moved to an adjoining cell. After the three counters are moved no counter is in line with another. Which three counters are moved to which three empty cells?

ANSWERS



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