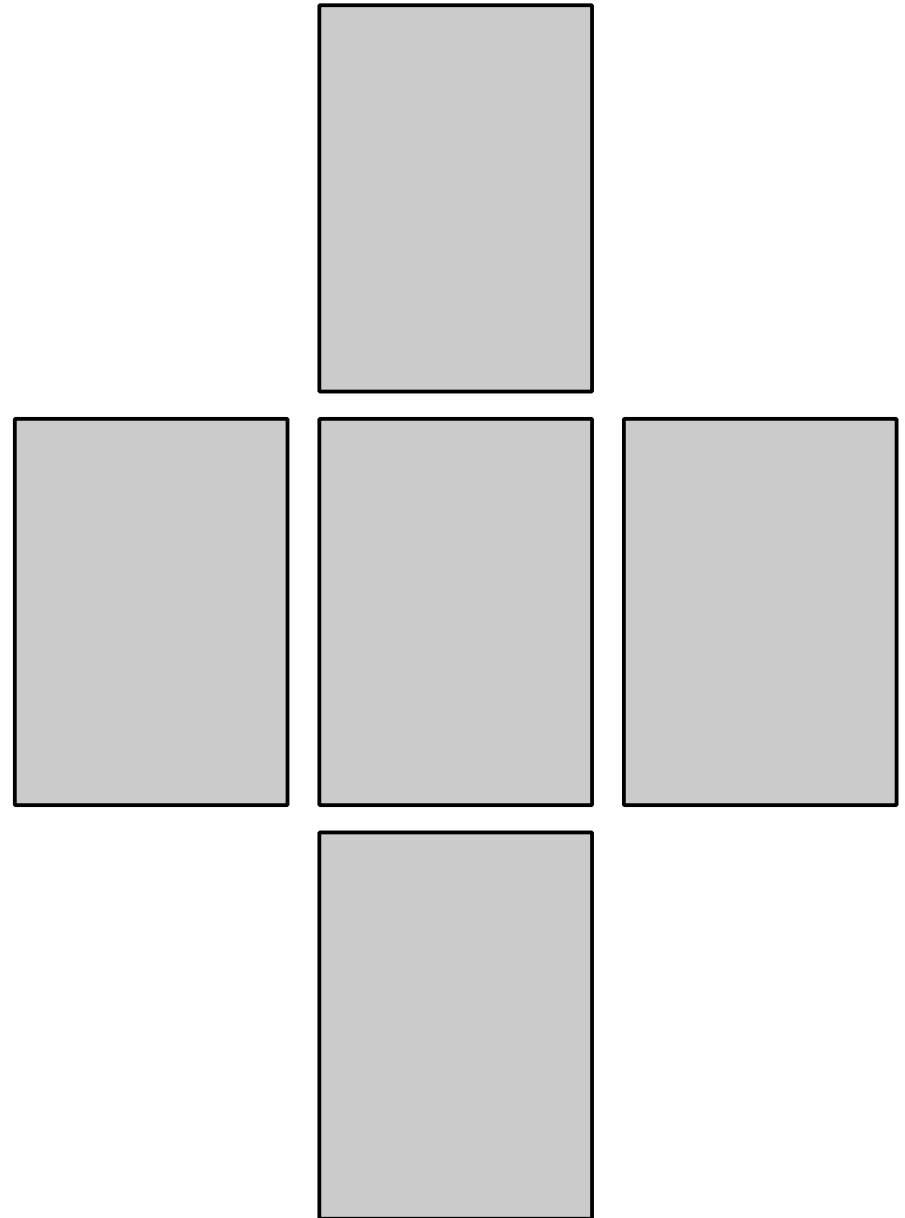
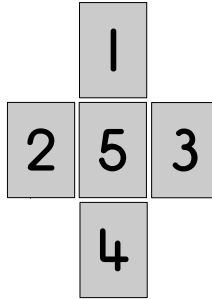


—Magic Crosses - 1

You need one set of number cards.

- Take only the cards 1, 2, 3, 4 and 5
- Here is a magic cross. It has the same total across as down. This cross has a magic total of 10.
- Use the same numbers. Make a magic total of 8. Record it
- Make a magic total of 9. Record it.

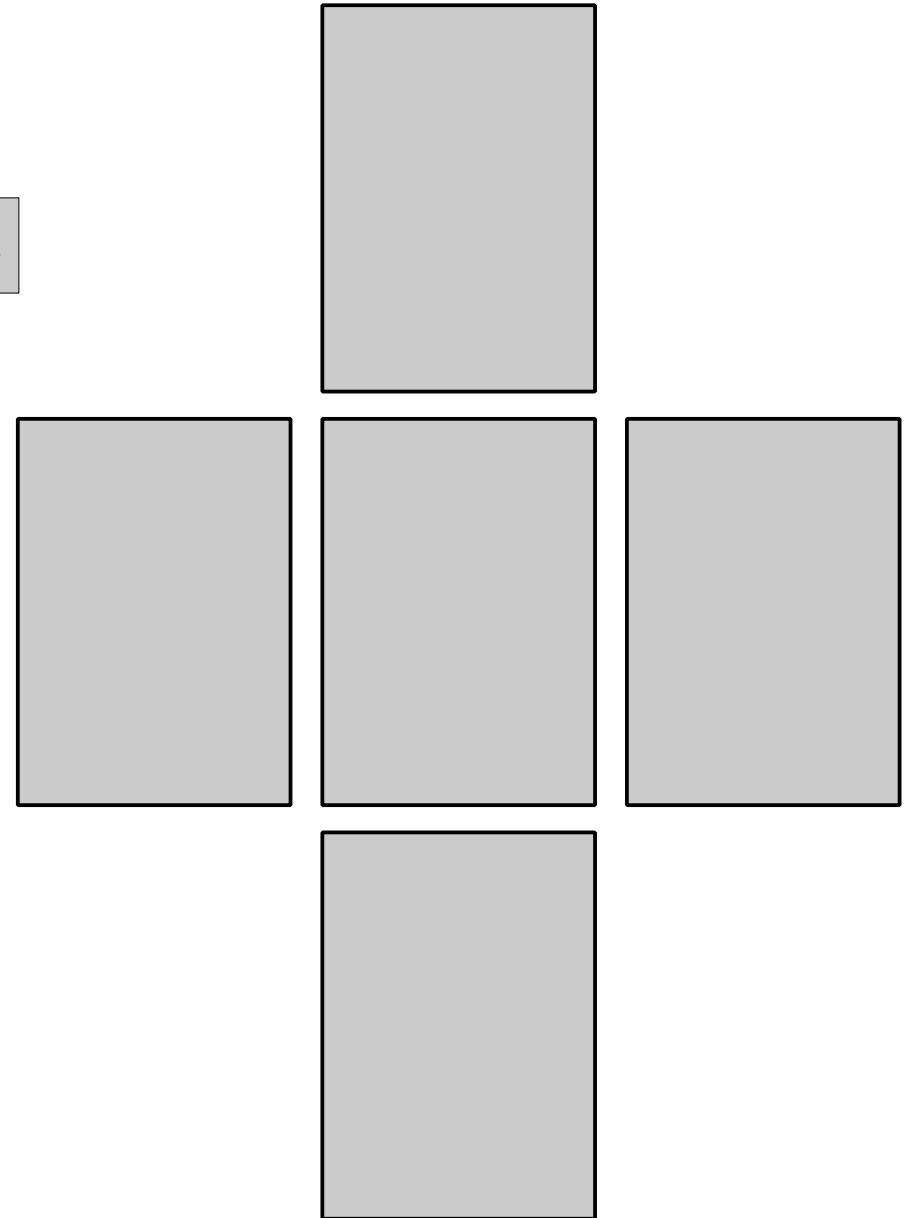
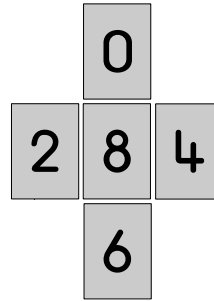
- Take cards 3, 4, 5, 6, and 7. Make three different magic totals. Record each one.
- Do the same with 5, 6, 7, 8 and 9.
- Do the same with 0, 1, 2, 3, and 4.



—Magic Crosses - 2

You need one set of number cards.

- Take the numbers 0, 2, 4, 6, and 8.
- Make a magic cross in three different ways. Record each one. Here is one way.
- Do the same with 1, 3, 5, 7 and 9.
- Do the same with sets of numbers of your own.

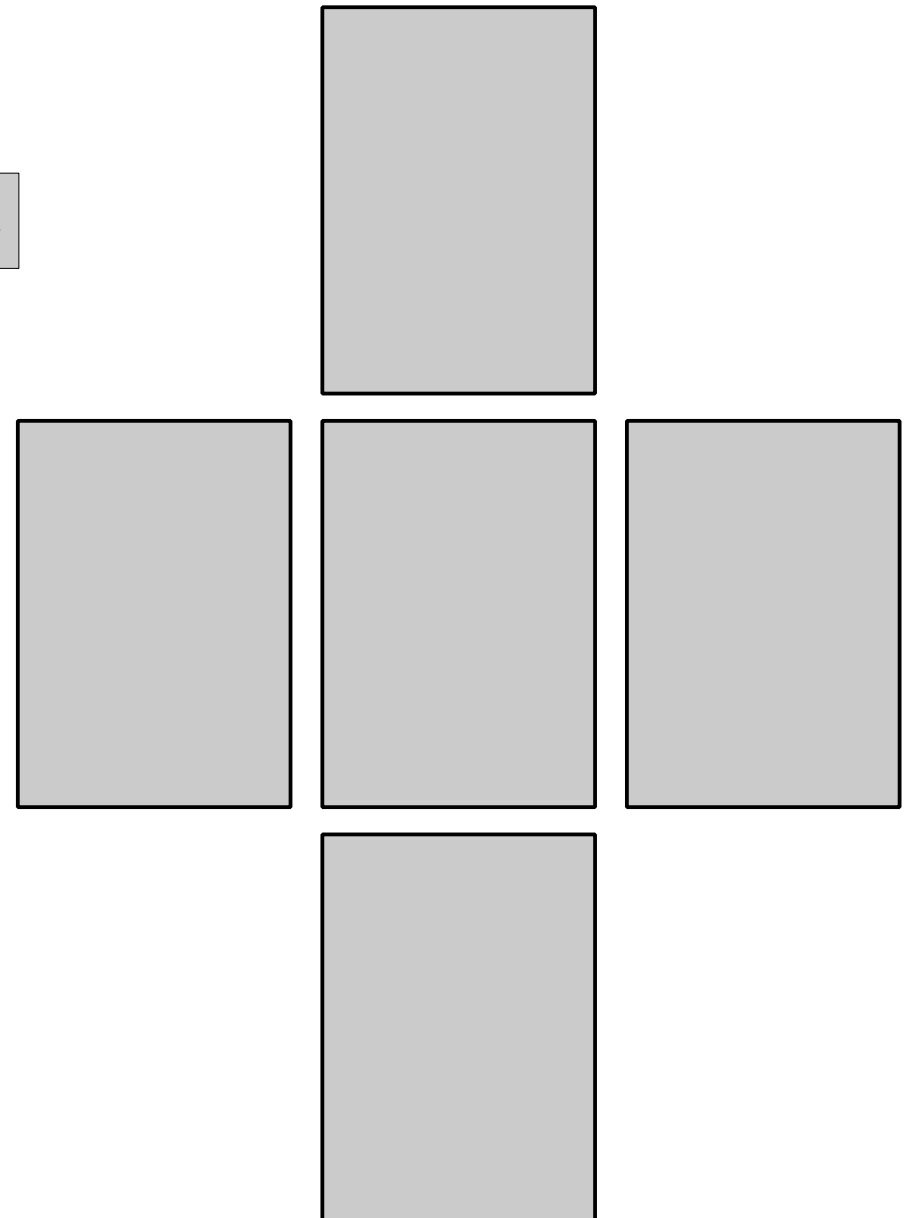
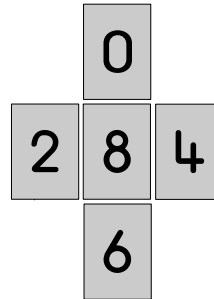


Can you find a set of numbers which has no solution?

—Magic Crosses - 3

You need one set of number cards.

- Take any five numbers from the set.
- Make a magic cross in different ways. Record each one. Here is one way with the numbers 0, 2, 4, 6 and 8.
- Find a magic cross with the largest magic total.
- Find a magic cross with the smallest total.
- Investigate other magic totals.



Find crosses with as many different magic totals as possible.