Double and Halve

30 x 3	50 x 3	70 x 3	90 x 3
30 x 4	50 x 4	70 x 4	90 x 4
30 x 5	50 x 5	70 x 5	90 x 5
30 x 6	50 x 6	70 x 6	90 x 6
30 x 7	50 x 7	70 x 7	90 x 7
30 x 8	50 x 8	70 x 8	90 x 8
30 x 9	50 x 9	70 x 9	90 x 9

Materials: 10 counters per player, 2 paper clips, 2 pencils, Double and Halve board
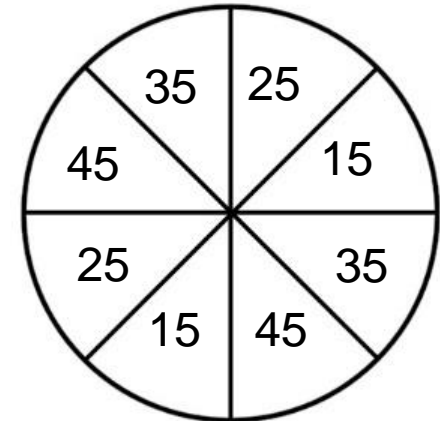
_____

1. Work with a partner. Collect 10 counters each.

2. Take turns to spin a paper clip on each spinner. Use the two numbers the paper clips land on to create a multiplication problem.

3. Double one factor and halve the other to change the problem to one with an equivalent product that is easy to solve mentally. Explain your strategy.

4. Place a counter on the multiplication fact on the board. If the multiplication fact is already covered play passes to the next player.

5. Continue playing until one player has placed all ten counters on the board.
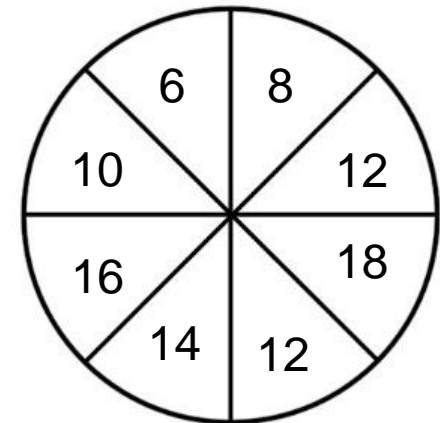
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Factor 1

35 25
45   15
25   35
15 45

Factor 2

6 8
10   12
16   18
14 12

I know that the product of ___ multiplied by ___ is equivalent to the product of ___ multiplied by ___. The answer to both problems is ___.

I know that the product of ___ multiplied by ___ is equivalent to the product of ___ multiplied by ___. The answer to both problems is ___.

To solve ___ times ___ I doubled __ and halved __ to change the problem to ___ times ___. The product is ___.

To solve ___ times ___ I doubled __ and halved __ to change the problem to ___ times ___. The product is ___.