

Frog Maze

Prime Numbers are the key to helping the frog find its way home.
Moves can be made up, down, left and right, but not diagonally.



A maze of lily pads in a pond. The frog starts on the lily pad with the number 5. The goal is to reach the lily pad with the number 46, which is marked as 'Home' by a wooden sign. The lily pads contain the following numbers:

29	43	11	5	
53	9	82	30	65
7	42	2	47	13
83	19	23	91	89
25	78	69	54	67
18	33	46		

Home

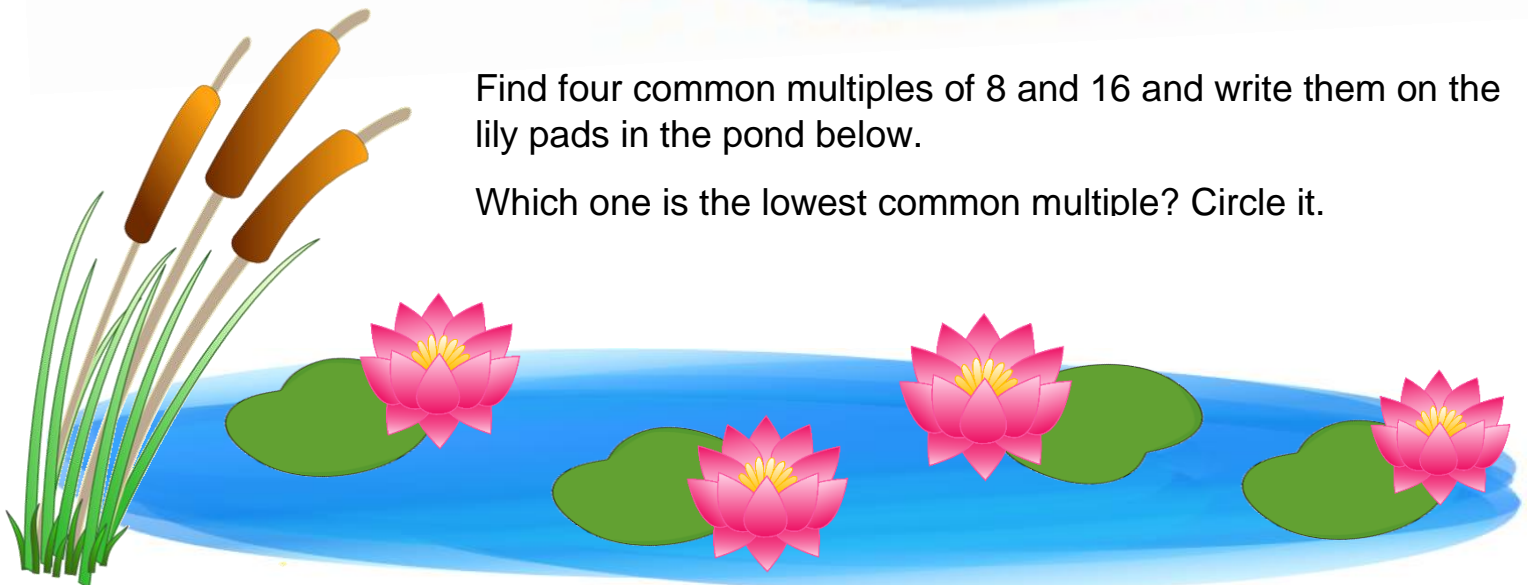
Factors of 36 will lead the frog to the water lily, can you work out the route that includes all of the factors? Moves can be made up, down, left and right, but not diagonally.

Circle the lily pads that are the common factors of both 36 and 24.

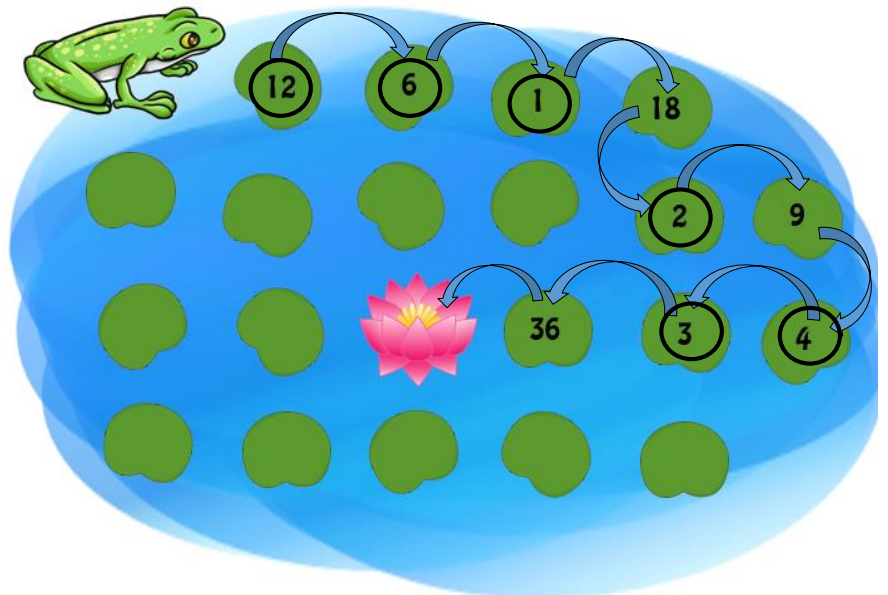
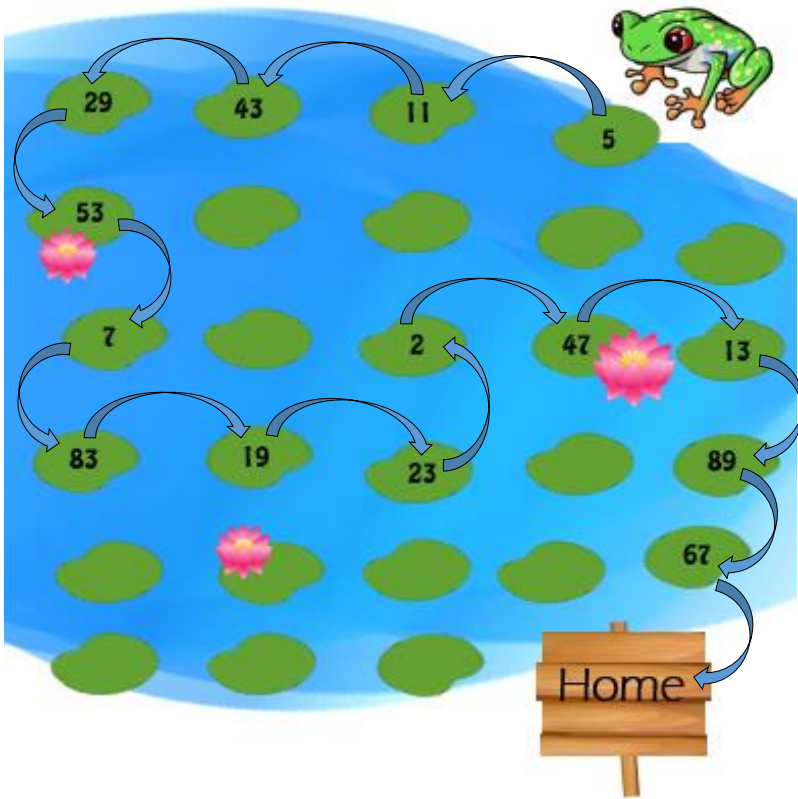


Find four common multiples of 8 and 16 and write them on the lily pads in the pond below.

Which one is the lowest common multiple? Circle it.



Answers:



Four common multiples of 8 and 16 could be any of the following
= 16, 32, 48, 64, 80, 96, 112 ...

The lowest common multiple = 16