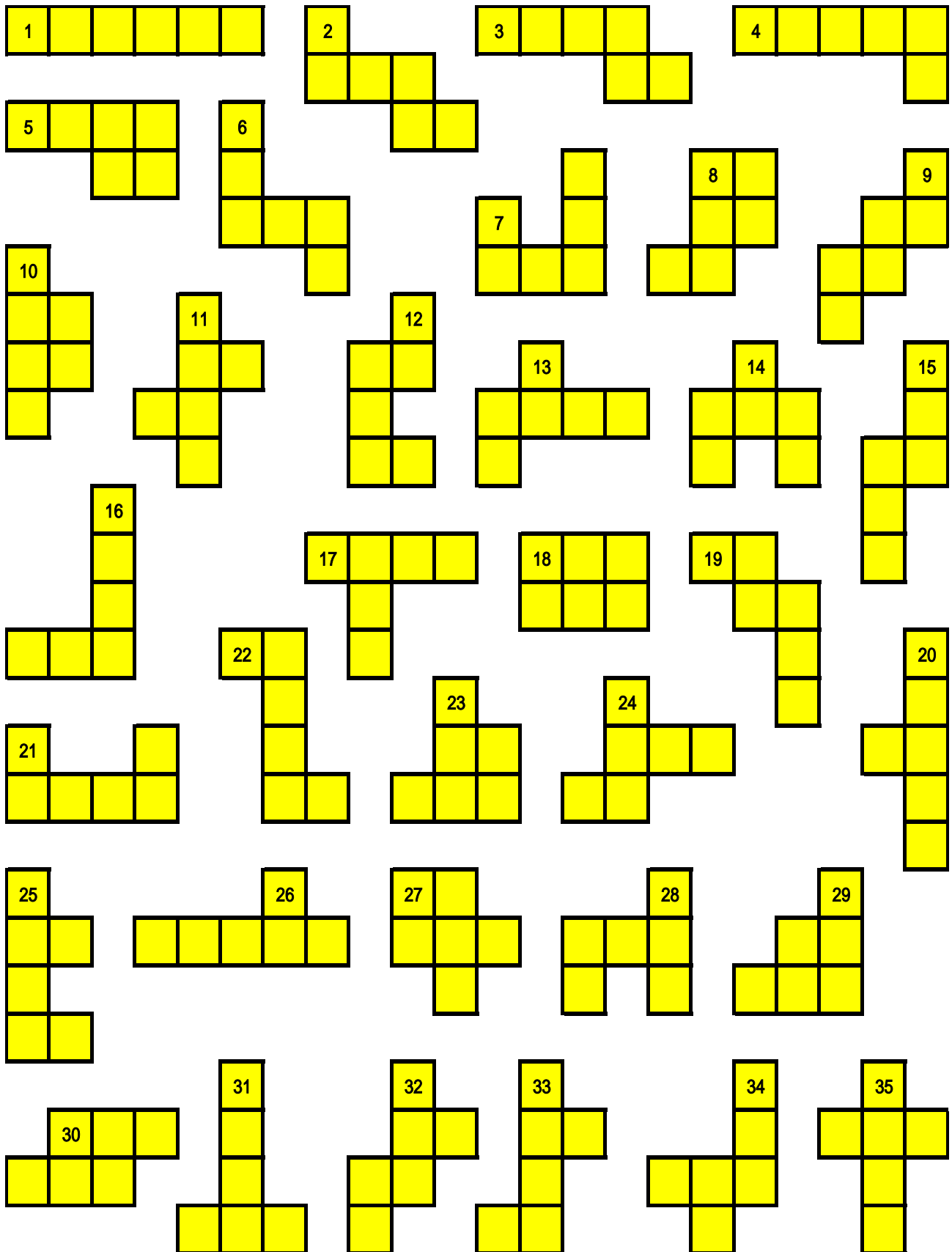


Worksheet on Hexominos



Search....

1. Which of the above hexominos can fold to form a cube? There are 11 of them.
2. 15 of the 35 hexominos are symmetric.
 - (a) Find out 5 which are symmetric about the center of the figure.
 - (b) Find out 2 which are symmetric about 2 axes (and about the center).
 - (c) Find out eight which are symmetric about 1 axis only.
3. You can classify the 35 hexominos into six groups. Assuming the squares of hexominos are of sides 1. Which of the hexominos can be placed inside a rectangle of the following dimensions? (You can rotate the hexominos. The numbers are shown inside the brackets)
 - (a) 2 x 4 (6)
 - (b) 3 x 3 (7)
 - (c) 3 x 4 (15)
 - (d) 2 x 5 (5)
 - (e) 1 x 6 (1)
 - (f) 2 x 3 (1)
4. Colour your figures alternately with two different colours, say red and green, so that the adjacent squares must be of different colour. Find out the hexominos with 2 red and 4 green squares. (or 4 red and 2 green) These are even hexominos. The others, with 3 red and 3 green squares are called odd hexominos.

Answers:

1	2, 9, 11, 13, 15, 22, 24, 31, 32, 33, 35
2 (a)	9, 11, 22, 15, 30
2 (b)	1, 18
2 (c)	10, 14, 20, 21, 27, 29, 31, 35
3(a)	5, 10, 12, 21, 25, 30
3(b)	7, 8, 14, 23, 27, 28, 29
3(c)	2, 6, 9, 11, 13, 16, 17, 19, 22, 24, 31, 32, 22, 34, 35
3(d)	3, 4, 15, 20, 26
3(e)	1
3(f)	18
4	25 - 35