N = 9
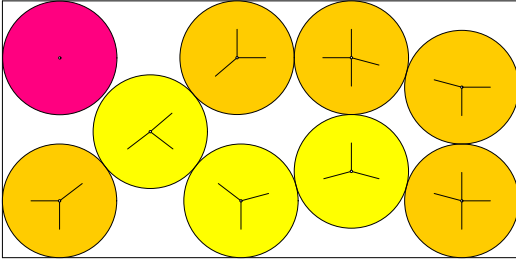
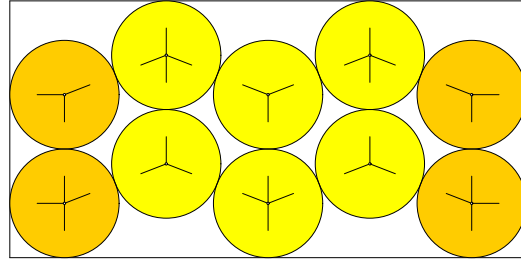**9 circles in a 1x0.50000 rectangle**

radius = 0.110653654474   density = 0.692394964906
ratio = 4.518603586796   contacts = 17

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N = 10

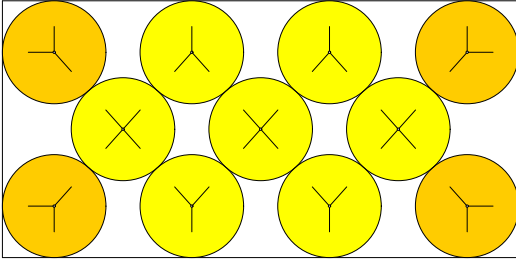**10 circles in a 1x0.50000 rectangle**

radius = 0.105783167544   density = 0.703093370410
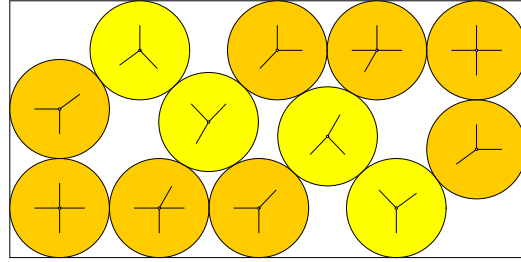ratio = 4.726649916142   contacts = 22

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N = 11

11 circles in a 1x0.50000 rectangle

radius = 0.100233512362   density = 0.694381995666
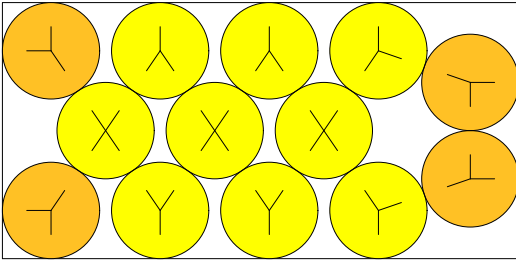ratio = 4.988351582404   contacts = 24

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N = 12

12 circles in a 1x0.50000 rectangle

radius = 0.096427664499   density = 0.701074887162
ratio = 5.185233953308   contacts = 26

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N = 13

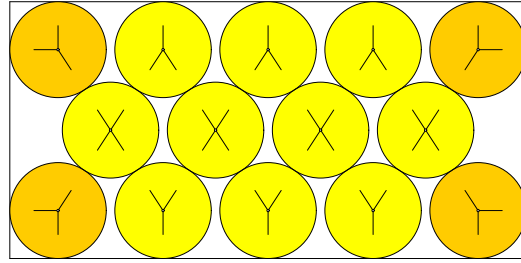**13 circles in a 1x0.50000 rectangle**

radius = 0.094142364928   density = 0.723924756137
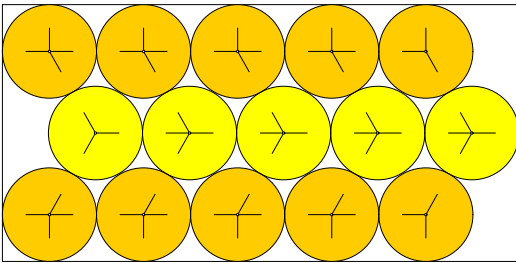ratio = 5.311105158457   contacts = 27

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N = 14

14 circles in a 1x0.50000 rectangle

radius = 0.093365838666   density = 0.766803187178
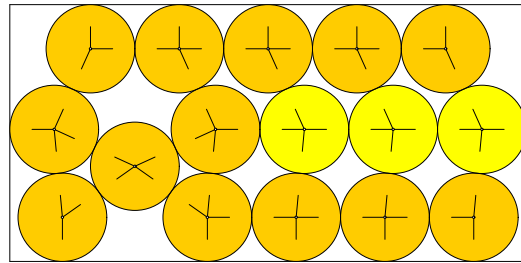ratio = 5.355277766926   contacts = 30

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N = 15

15 circles in a 1x0.50000 rectangle

radius = 0.091090581831   density = 0.782020395077
ratio = 5.489041676411   contacts = 35

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N = 16

16 circles in a 1x0.50000 rectangle

radius = 0.085955228382   density = 0.742753057385
ratio = 5.816981810315   contacts = 36

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