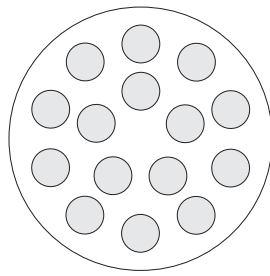
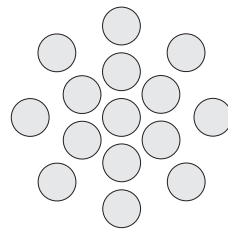


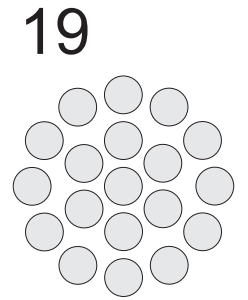
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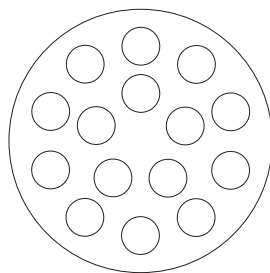
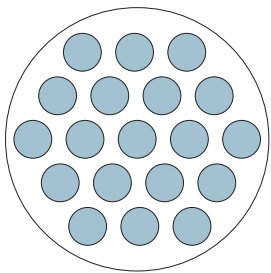
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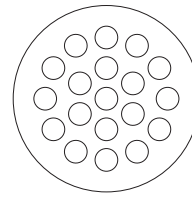
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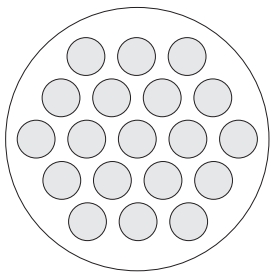
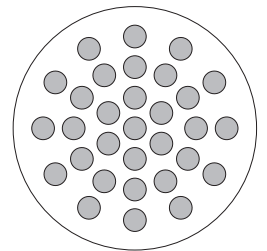
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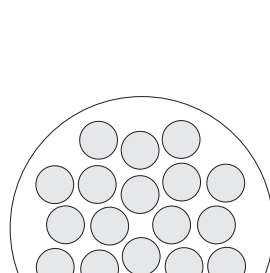
19
3mm LEDs



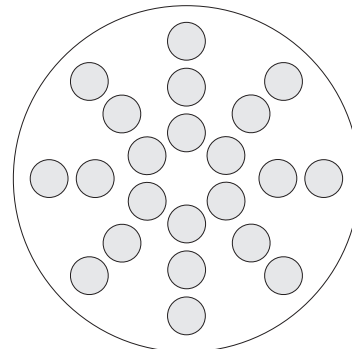
31
3mm LEDs



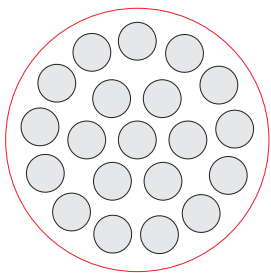
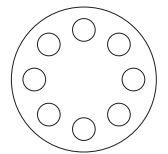
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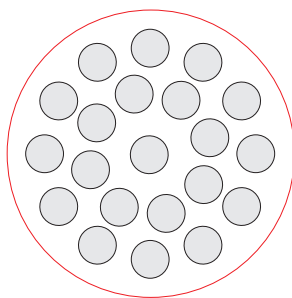
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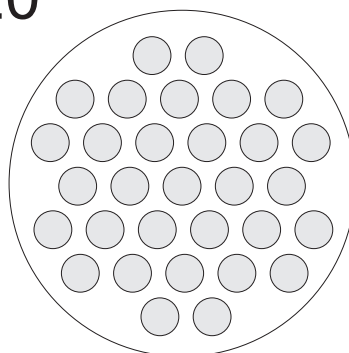
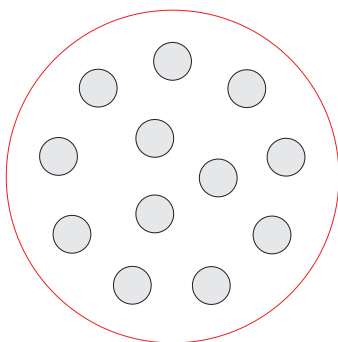
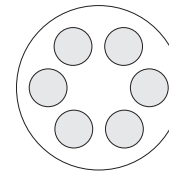
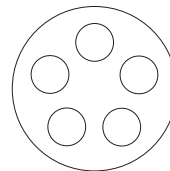
22



20



20



31

12 Source voltage

3.5 diode forward voltage

150 diode forward current (mA)

6 number of LEDs in your array

View output as: ASCII schematic wiring diagram

help with resistor color codes

[design this array](#)

Solution 0: 2 x 2 array uses 6 LEDs exactly

+12V R = 15 ohms

The wizard says: In solution 0:

- each 15 ohm resistor dissipates 150 mW
- the wizard says the color code for 15 is brown green black
- the wizard thinks 1/2W resistors are needed for your application
- together, all resistors dissipate 300 mW
- together, the diodes dissipate 210 mW
- total power dissipated by the array is 2400 mW
- the array draws current of 200 mA from the source.