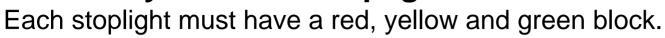
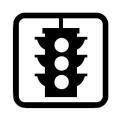
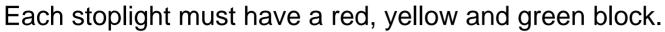
How Many Different Stoplights Can Be Made?

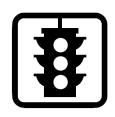




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How Many Different Stoplights Can Be Made?

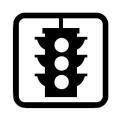




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How Many Different Stoplights Can Be Made?

Each stoplight must have a red, yellow and green block.



R	R	G	G	Y	Y
Y	G	Y	R	R	G
G	Y	R	Y	G	R

ANSWER: There are 6 different stoplights that can be made. An orderly way to count is to let each color be on top twice, and then switch the other two colors for a different combination.