

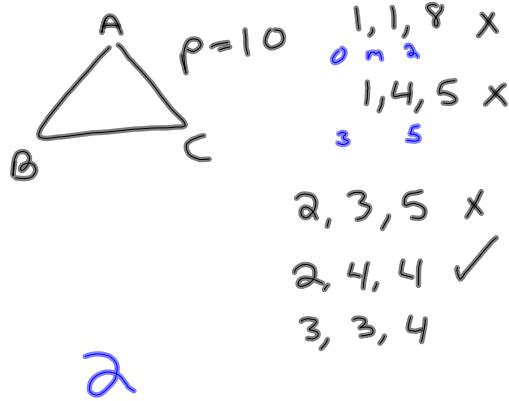
8-30-13
3rd Try

Starting with a blue light, a strand of colored lights contains lights in a repeating pattern of blue, orange, green, purple, red, and yellow. What is the color of the 53rd light?

- A. Blue
- B. Orange
- C. Green
- D. Purple
- E. Red

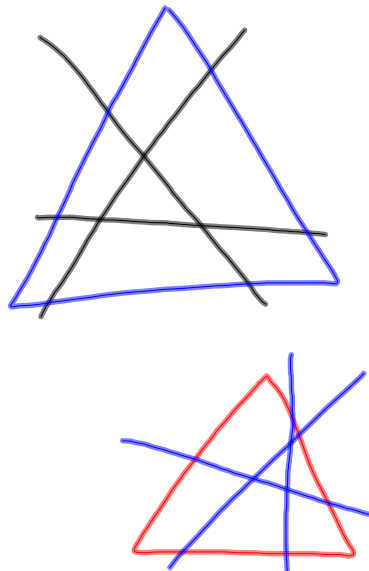
6
↑
multiple
of
6
 $6 \times 8 = 48$
 $6 \times 9 = 54$

Triangle ABC has a perimeter of 10, and the lengths of its sides are all integers. If a is the length of side \overline{BC} , what is the difference between the largest and smallest possible values of a ?



What is the greatest number of regions into which an equilateral triangle can be divided using exactly three straight lines?

- A. 4
- B. 6
- C. 7
- D. 8
- E. 9

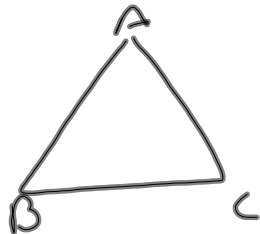


Starting with a blue light, a strand of colored lights contains lights in a repeating pattern of blue, orange, green, purple, red, and yellow.

- A. Blue
- B. Orange
- C. Green
- D. Purple
- E. Red**

6
 12
 18
 $6 \times 9 = 54$

Triangle ABC has a perimeter of 10, and the lengths of its sides are all integers. If a is the length of side \overline{BC} , what is the difference between the largest and smallest possible values of a ?



$P = 10$

- $1, 6, 3$ X
- $2, 3, 5$ X

only Δ 's that work

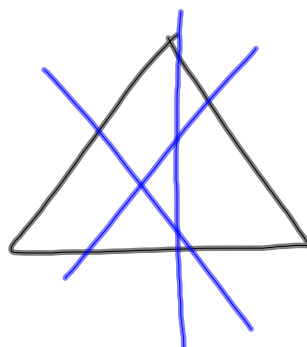
diff of largest and smallest is \rightarrow

- $2, 4, 4$
- $3, 3, 4$

2

What is the greatest number of regions into which an equilateral triangle can be divided using exactly three straight lines?

- A. 4
- B. 6
- C. 7
- D. 8
- E. 9



7