

12.3 Building Triangles using Polystrips

side lengths (2-20)

Δ possible

8, 8, 8

yes

5, 15, 7

no

20, 9, 5

no

9, 3, 5

no

20, 5, 7

no

3, 11, 15

no

8, 9, 10

yes

13, 11, 14

yes

9, 4, 8

yes

19, 11, 13

yes

5, 5, 6

yes

10, 10, 7

yes

Do you see a pattern why some sets work and some don't?

The sum of the two shorter sides must be greater than the longest side.