Making triangle patterns

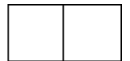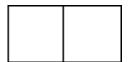**This task is about shape patterns and how they change.**

In this task you:

. use straws to build a pattern,
. make a prediction about how many straws you need for more patterns and
. write an explanation.

Y / N

a) Your teacher will give you 3 straws. Use these straws to make a triangle.

b) Your teacher will give you 2 more straws. Add these 2 straws onto the triangle you have made so there are 2 triangles touching side by side.

c) Your teacher will give you 2 more straws. Now add these 2 straws onto what you have already made to make 3 triangles touching side by side.

d) How many straws did you use altogether to make 3 triangles? _____

e) How many straws would you need altogether to make 4 triangles? _____

f) How many straws would you need altogether to make 5 triangles? _____

g) i) How many straws would you need altogether to make 10 triangles? _____

   ii) How did you work this out?

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