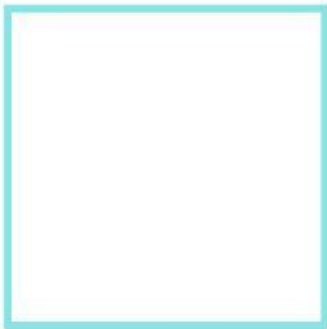


Strong Framework Structures

A frame structure is usually made from a combination of beams, columns, and slabs. It needs to be stable and not collapse. Let's look at some shapes as framework structures.



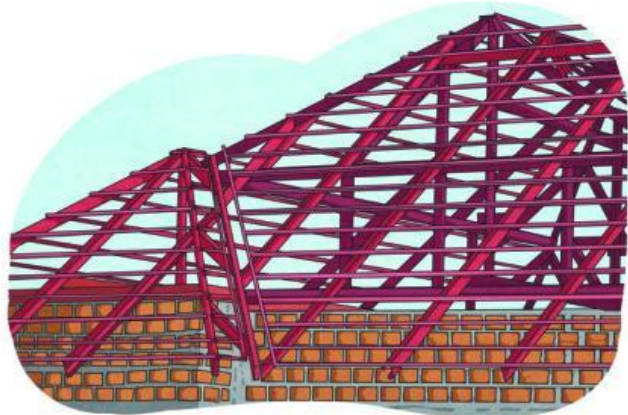
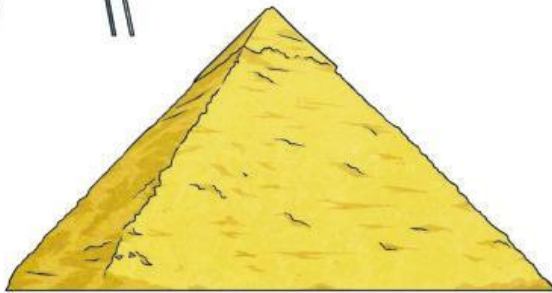
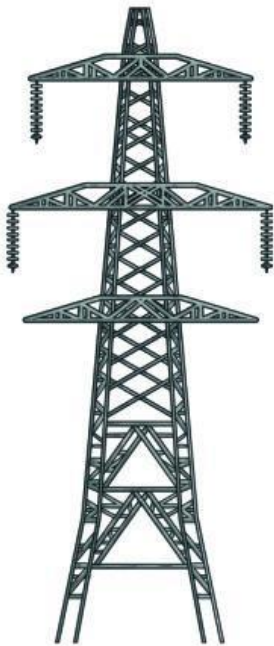
1. Which of these shapes will collapse when you press on a corner or apply pressure?

2. Which shape do you think is the strongest?

3. Is there anything we can do to the weaker structure to make it stronger? What?

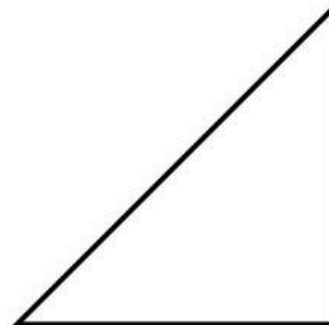
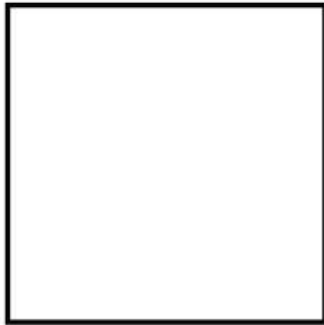
4. What shapes does this make when you strengthen the weaker shape?

5. Which of the pictures use framework structures? Draw a circle around them.



Strong Framework Structures

Answers



1. Which of these shapes will collapse when you press on a corner or apply pressure?

The square will collapse.

2. Which shape do you think is the strongest?

The triangle.

3. Is there anything we can do to the weaker structure to make it stronger? What?

Add a brace diagonally from corner to corner.

4. What shapes does this make when you strengthen the weaker shape?

This makes two triangles.

5. Which of the pictures use framework structures? Draw a circle around them.

