6.EE Families of Triangles

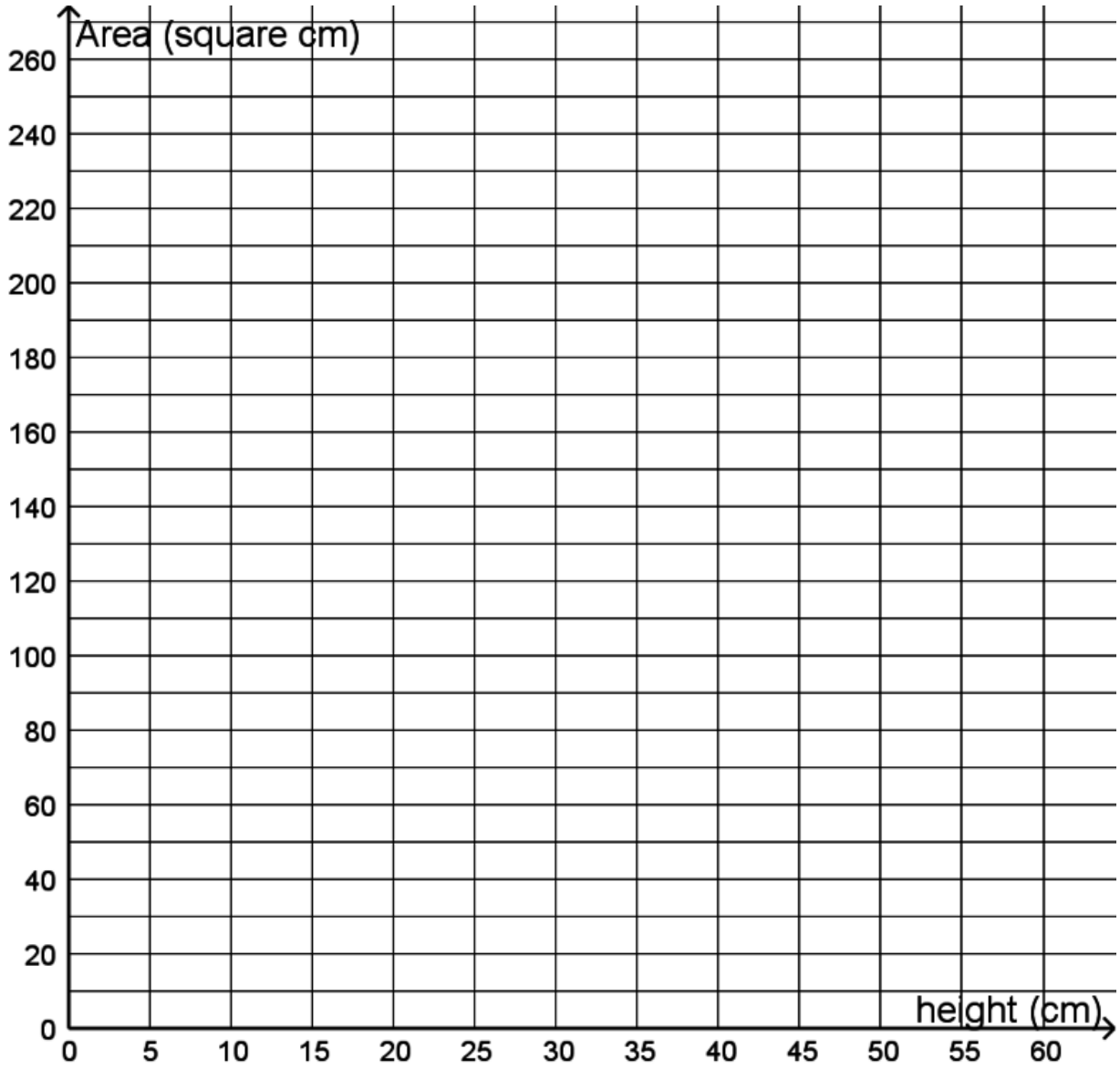
Task

There are a bunch of triangles. They all have one side that is 10 centimeters long, which we will consider as the base of the triangle.

a. The triangles each have a different height (as measured off of the 10-centimeter base) and so have different areas. Fill in the table:

Height (centimeters)	Area (square centimeters)
20	
25	
40	
	250

b. Plot the ordered pairs from the table in the coordinate plane and label them with their coordinates.



c. Where can you see the answers to part (a) in the coordinate plane?

d. If A represents the area and h represents the corresponding height, write an equation using A and h that represents the area of any such triangle.