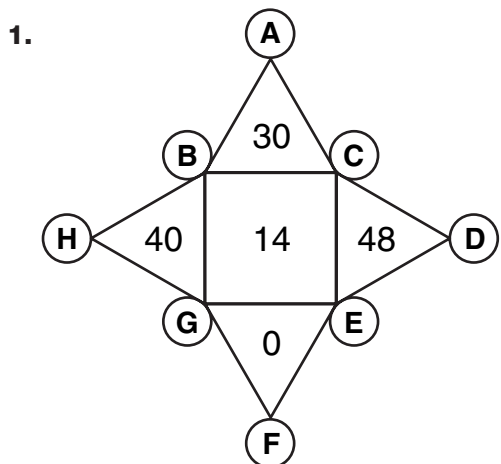


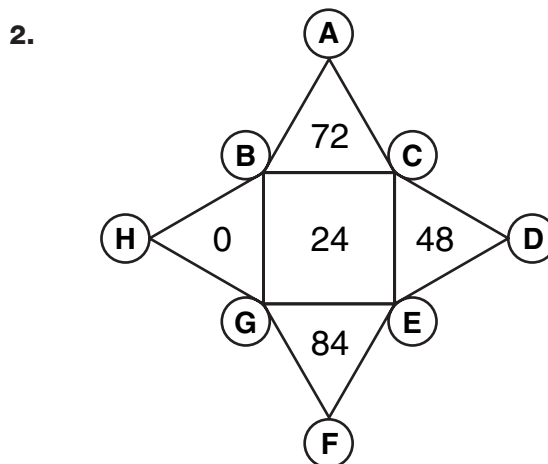
# Challenge

## Triangle Products and Square Sums

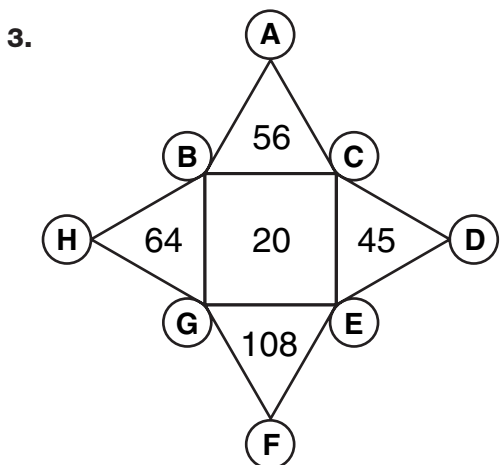
In the figures below, the numbers in each of the four triangles is the product of the circled numbers at the points of that triangle, which are represented with letters. The number in the square is the sum of the points of the square. The letters represent any number from 0 to 9. Find the value of each letter. No number is used twice in the same square. Some values are given for you.



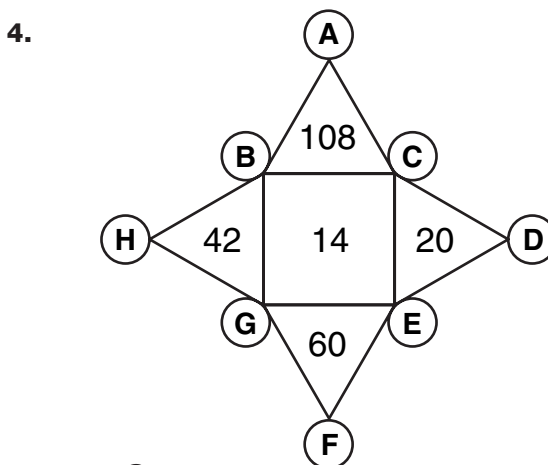
A = **3**, B = **5**, C = **2**  
 D = \_\_\_\_\_, E = \_\_\_\_\_, F = \_\_\_\_\_  
 G = \_\_\_\_\_, H = \_\_\_\_\_



A = **1**, B = \_\_\_\_\_, C = \_\_\_\_\_  
 D = **2**, E = \_\_\_\_\_, F = \_\_\_\_\_  
 G = \_\_\_\_\_, H = \_\_\_\_\_



A = \_\_\_\_\_, B = \_\_\_\_\_, C = \_\_\_\_\_  
 D = \_\_\_\_\_, E = **9**, F = \_\_\_\_\_  
 G = \_\_\_\_\_, H = \_\_\_\_\_



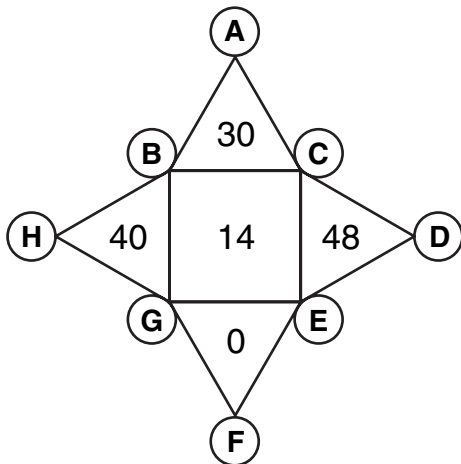
A = **9**, B = \_\_\_\_\_, C = \_\_\_\_\_  
 D = \_\_\_\_\_, E = \_\_\_\_\_, F = \_\_\_\_\_  
 G = \_\_\_\_\_, H = \_\_\_\_\_

# Challenge

## Triangle Products and Square Sums

In the figures below, the numbers in each of the four triangles is the product of the circled numbers at the points of that triangle, which are represented with letters. The number in the square is the sum of the points of the square. The letters represent any number from 0 to 9. Find the value of each letter. No number is used twice in the same square. Some values are given for you.

1.

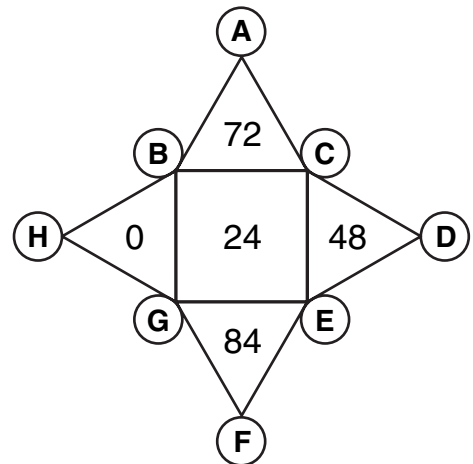


$$A = \underline{3}, B = \underline{5}, C = \underline{2}$$

$$D = \underline{4}, E = \underline{6}, F = \underline{0}$$

$$G = \underline{1}, H = \underline{8}$$

2.

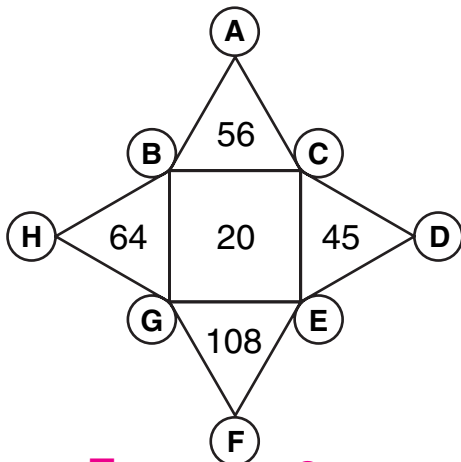


$$A = \underline{1}, B = \underline{9}, C = \underline{8}$$

$$D = \underline{2}, E = \underline{3}, F = \underline{7}$$

$$G = \underline{4}, H = \underline{0}$$

3.

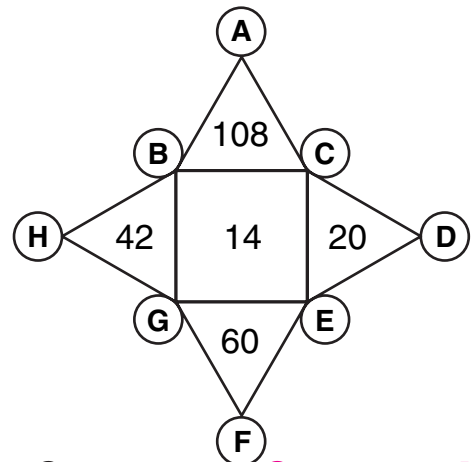


$$A = \underline{7}, B = \underline{8}, C = \underline{1}$$

$$D = \underline{5}, E = \underline{9}, F = \underline{6}$$

$$G = \underline{2}, H = \underline{4}$$

4.



$$A = \underline{9}, B = \underline{3}, C = \underline{4}$$

$$D = \underline{1}, E = \underline{5}, F = \underline{6}$$

$$G = \underline{2}, H = \underline{7}$$