Name _____ Date _____

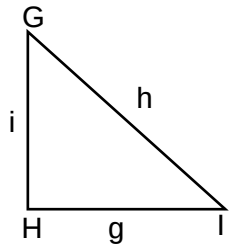
Proving the Formula A = 1/2 ab sin(C) - Matching Worksheet

Write the letter of the answer that matches the problem.

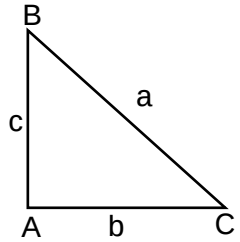
_____ 1. In triangle QRS. Side q = 6, side r = 7, and S = 12^{o}. Prove: Find the area of triangle by sin rule formula.

_____ 2. In triangle EFG Area of triangle = 180, e= 24, f = 16. Find the value of sin G.

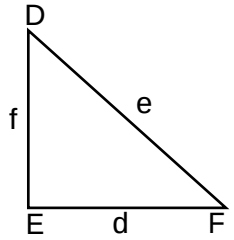
_____ 3. In triangle GHI, side i = 6, side h = 8. Find the side g.



_____ 4. Can you prove: The area of triangle ABC=1/2 ab Sin C.



_____ 5. Acute triangle DEF, with d, e, f, being the respective opposite sides to angle D, angle E, angle F, and altitude, h, drawn from angle E to e. Can you prove: The area of triangle DEF =1/2 de Sin D.



a. 0.9375

b. Yes

c. 5.29

d. No

e. 4.366