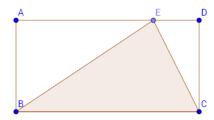
Geometry: Area of Triangles and Quadrilaterals

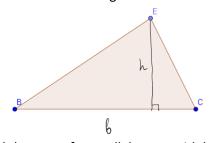
1. Find the area of rectangle ABCD. Explain why your answer is right. (Do NOT just say "because there is a formula", but actually explain why.)



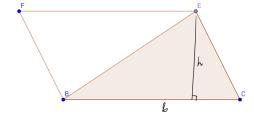
2. What fraction of the total rectangle area is shaded? Explain. Again, do not use a formula as your explanation.



3. If the base of the triangle is b and the height is h, what is the area of the triangle? Explain.



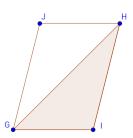
4. Find the area of a parallelogram with base b and height h. Explain.



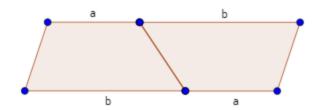
5. Which of the three quadrilaterals has the largest area: (explain why)



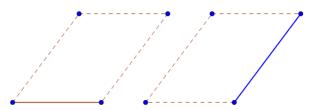
6. Explain why the triangle formula also works for an obtuse triangle.



7. Find the area of a trapezoid with bases a and b and height h. Explain without using the trapezoid formula..



8. In each parallelogram, the solid side is chosen as the base. Draw the corresponding height.



- 9. In your own words, explain what is a height in a parallelogram.
- 10. Find the area of the following figures:

