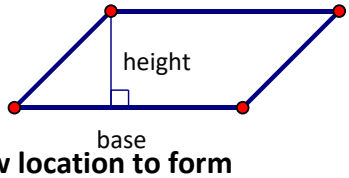
Geometry (G.GMD.1)
Unit Three: Area Formulas #1 (HW1)

Name: _____
Date: _____ Period: _____

1. Henry looks at the rectangle on the right and says that the base is 5 cm and the height is 3 cm. Jennifer looks at it and says that the base is 3 cm and the height is 5 cm. Who is correct? Explain.

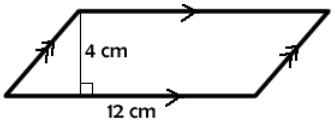
2. Demonstrate how using <u>dissection</u> the given parallelogram has the same area as a rectangle with the same base and height.



3. In the previous question, which transformation moved the dissected piece into its new location to form the rectangle? _____

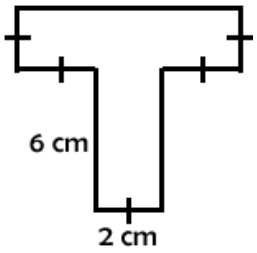
4. Determine the area of the following figures. (Lines that appear to be perpendicular are perpendicular and lines that appear to be parallel are.)

a)



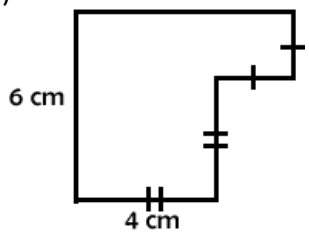
Area = _____

b)



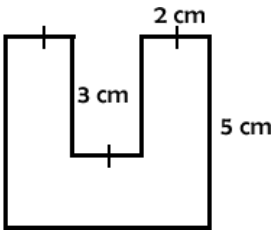
Area = _____

c)



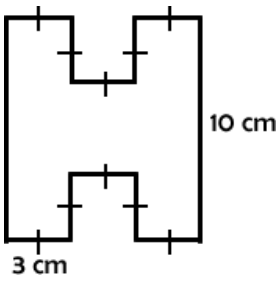
Area = _____

d)



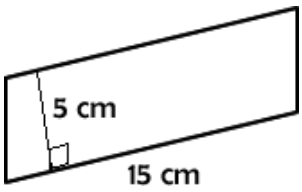
Area = _____

e)



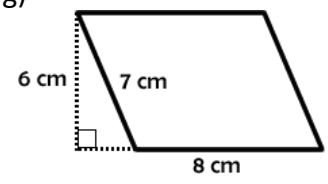
Area = _____

f)



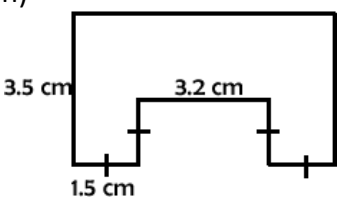
Area = _____

g)



Area = _____

h)



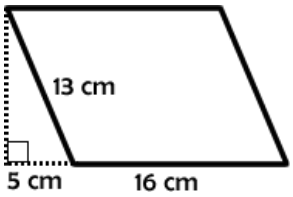
Area = _____

5. Determine the area of the following rectangles and parallelograms. (Lines that appear to be perpendicular are perpendicular and lines that appear to be parallel are.)

a)

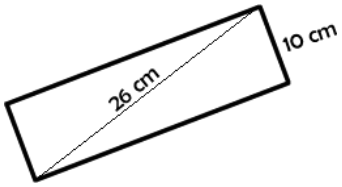
Area = _____

b)



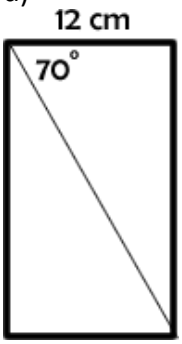
Area = _____

c)



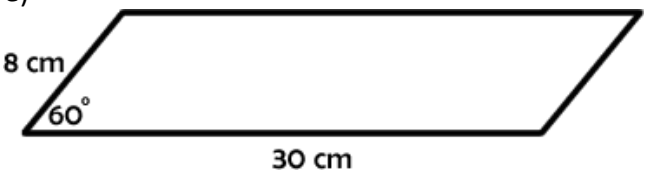
Area = _____

d)



Area = _____ (2 dec.)

e)



Area = _____ (Exact answer)