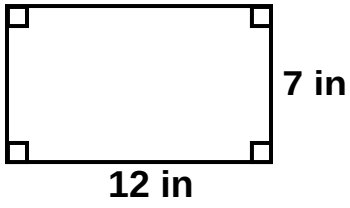
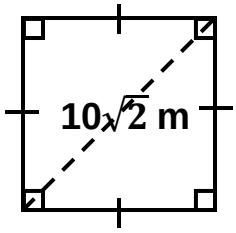
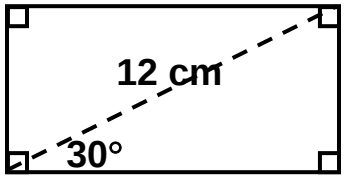
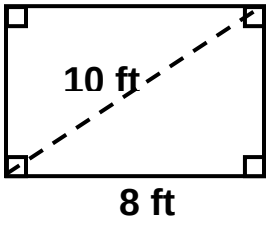
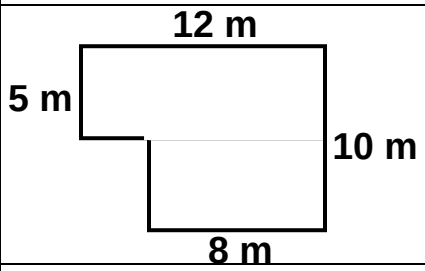
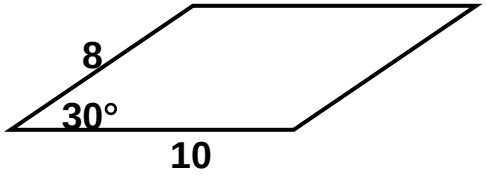
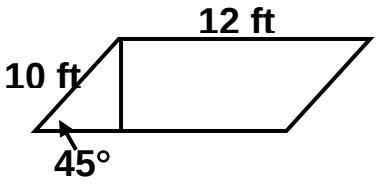
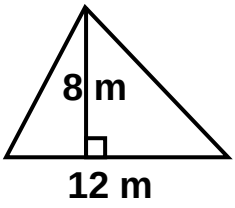
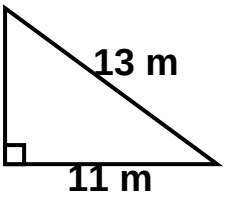
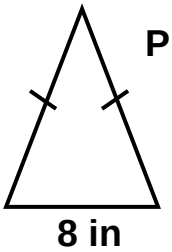
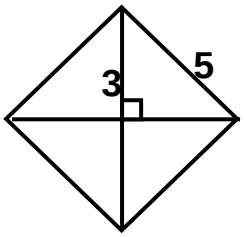
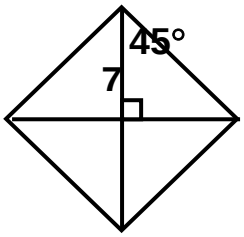
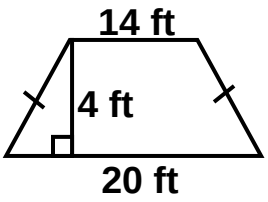
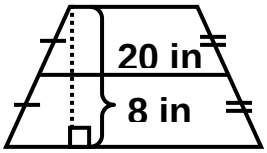
NAME_____**DATE**_____**PER.**____

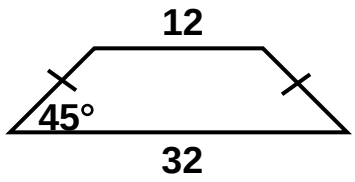
REVIEW #12: PERIMETER & AREA

PART 1: Perimeter & Area of Polygons
Find the area and/or perimeter for each of the following.

1. P = _____ A = _____	
2. P = _____ A = _____	
3. P = _____ A = _____	
4. P = _____ A = _____	
5. P = _____ A = _____	
6. A = _____	Find the area of a square with a perimeter of 80 cm.
7. A = _____	Find the area of a parallelogram with a base of 12m and a height of 6m.

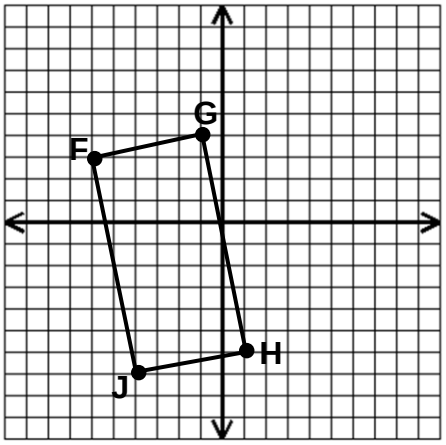
8. P = _____ A = _____	
9. P = _____ A = _____	
10. A = _____	Find the area of a triangle with side lengths 11, 12, and 15 cm.
11. A = _____	
12. A = _____	Find the area of an equilateral triangle with a perimeter of 30.
13. P = _____ A = _____	
14. A = _____	

15. A = _____	Find the area of a kite with one diagonal length of 24 (the one that is bisected) and side lengths of 13 and 37.
16. P = _____ A = _____	
17. P = _____ A = _____	
18. P = _____ A = _____	
19. A = _____	
20. h = _____	Find the height of a trapezoid with bases 9 and 6 and an area of 120 square units.
21. b = _____	The area of a trapezoid is 144 square kilometers. The shorter base is 14 km and the height is 6 km. Find the longer base.

22. P = _____ A = _____	

PART 2: Perimeter, Area, & The Coordinate Plane
Use the rectangle graphed in the grid below to answer 23-35.

23. _____	Find the slope of the line containing length $\overline{GH}$.
23. _____	What is the slope of the width?
25. P = _____ A = _____	Find the perimeter and area of the rectangle.



PART 3: CHANGING DIMENSIONS

26. Describe the effect on the area of a rectangle if the length is tripled.
27. Describe the effect on the perimeter and area of a triangle if all the dimensions are halved.
28. The height is tripled and the base is doubled on the parallelogram in #8. Describe the effect on the area of the parallelogram and state what the new area would be.
29. If the area of a kite in is reduced to $\frac{1}{4}$ the original area, what is the change in the diagonals of the kite?