	1/011
Name	Key

Date	Pd

CYU 1.4 Perimeter, Area, & Polygons

✓ Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

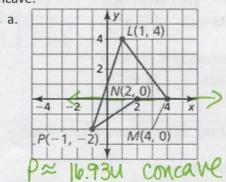
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Classifying polygons	1a	1b	6
Convex vs. Concave	1a	1b	2
Perimeter	2a, 4a	2b, 4b	5, 6c, 8
Area	3	7	4c, 6c
Distance Formula on a coordinate plane	3	2b, 4	2a, 5

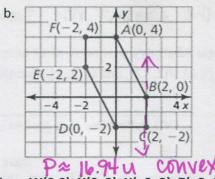
4 > guadrilateral b.

concave

not regular

2. Find the perimeter of the polygon with the given vertices. State if the figure is convex or concave.



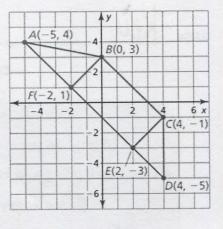


3. Find the area of the polygon with the given vertices: W(0,0), X(0,3), Y(-3,3), Z(-3,0). $A = 9u^2$

- 4. Use the diagram provided to find the following:
 - a. perimeter of $\triangle CDE$.

b. Find the perimeter of quadrilateral ABCD.

c. Find the area of the quadrilateral ABCD.

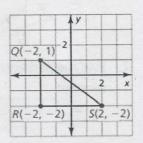


- 5. Determine which points are the remaining vertices of a rectangle with a perimeter of 14 units.
 - A. A(2, -2) and B(2, -1)
 - B. C(-2, -2) and D(-2, 2)
 - C.) E(-2, -2) and F(2, -2)
 - D. G(2, 0) and H(-2, 0)
- 6. The lines $y_1 = 2x 6$, $y_2 = -3x + 4$, and $y_3 = -\frac{1}{2}x + 4$ are the sides of a right triangle.
 - a. Use slopes to determine which sides are perpendicular.

b. Find the vertices of the triangle.

c. Find the perimeter and area of the triangle.
$$\rho \approx 15.27 \,\text{U}$$
 A = $10 \,\text{U}^2$

7. Your friend claims that a rectangle with the same perimeter as ΔORS will have the same area as the triangle. Is your friend correct? Explain your reasoning. NO, $\triangle: P = 12u + A = 6u^2$ A rectangle 1x5 has same perimeter as the \triangle but not same area (5u²)



8. Triangle ABC has a perimeter of 12 units. The vertices of the triangle are A(x, 2), B(2, -2), and C(-1, 2). Find the value of x.

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

Intermediate Advanced Solved ALL! Basic