

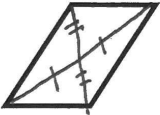

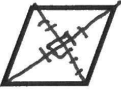

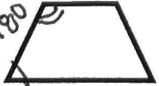


Study the diagram below. Use the Pythagorean Theorem to find the lengths, and find slopes to determine what the shape is. Then find the perimeter of the figure. Challenge: find the area of the figure.

		Red Angle Property	Blue Length Property	Green Parallel Sides	Yellow Diagonals
SQUARE		All four are 90°	All sides are the same length	Opposite sides are parallel	Equal lengths. Bisect at 90°
RECTANGLE		Opposite angles are equal	Opposite sides are the same length	Opposite sides are parallel	Equal lengths. Bisect, not at 90°
PARALLELOGRAM		Opposite angles are equal	Opposite sides are the same length	Opposite sides are parallel	Not equal lengths. Bisect, not at 90°
TRAPEZIUM Trapezoid		They can all be different	They can all be different	One pair of opposite sides are parallel	Not equal. Do not bisect
RHOMBUS		Opposite angles are equal	All sides are the same length	Opposite sides are parallel	Not equal. Bisect at 90°
KITE		One pair of opposite angles are equal	Two pairs of adjacent sides are equal	No sides are parallel	One diagonal bisected at 90°
ISOSCELES TRAPEZIUM Trapezoid		Two pairs of adjacent angles are equal	One pair of opposite sides are equal	One pair of opposite sides are parallel	Equal length. Do not bisect.