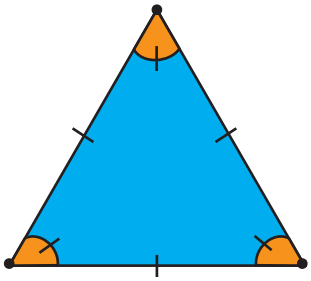
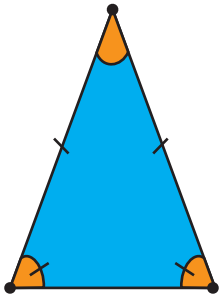
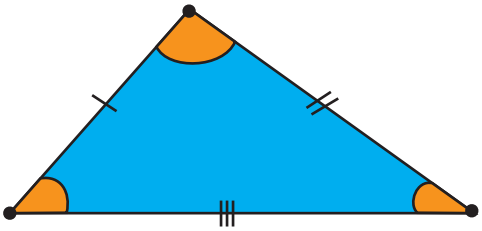
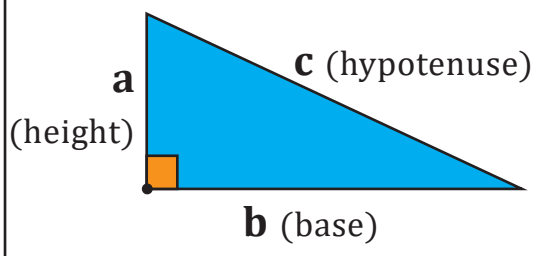
PiAcademy Properties of 2D Shapes for 11+ Exam

2D Shapes	Sides	Angles
 **Equilateral Triangle**	• All sides are of equal length	• All angles are equal (60^0)
 **Isosceles Triangle**	• Two sides are of equal length	• The base angles of an isosceles triangle are always equal
 **Scalene Triangle**	• All sides are different lengths	• All angles are different measures
 **Right-angled Triangle**	• The square of the hypotenuse is equal to the sum of the squares of the other two **sides**. $a^2 + b^2 = c^2$	• Contains a right angle (90^0) • A right angled triangle may be isosceles or scalene.

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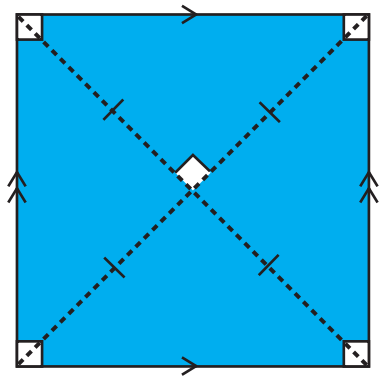
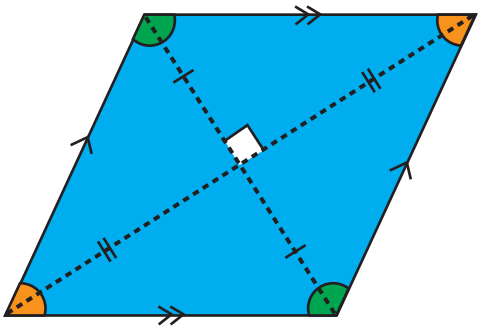
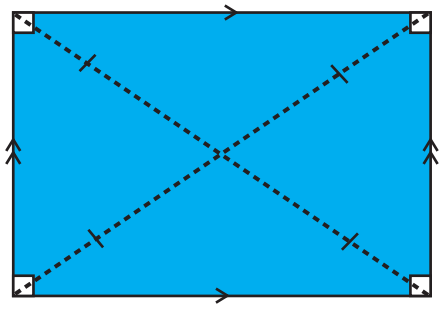
 **Square**	• Opposite sides are parallel • All sides are of equal length	• All angles are equal (90^0) • The diagonals are of equal length • The diagonals bisect each other at 90^0
 **Rhombus**	• All sides are of equal length • Opposite sides are parallel	• Diagonally opposite angles are equal • The diagonals bisect each other at 90^0 "Bisect" means to divide into two equal parts
 **Rectangle**	• Opposite sides are of equal length • Opposite sides are parallel	• All angles are equal (90^0) • The diagonals are of equal length • The diagonals bisect each other (not at 90^0)

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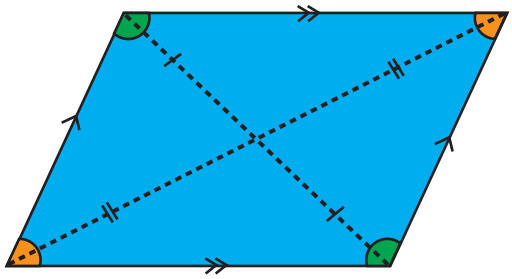
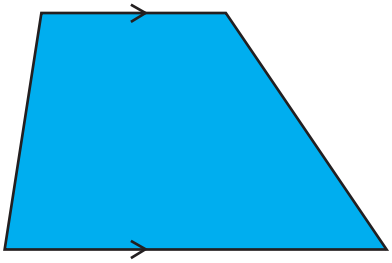
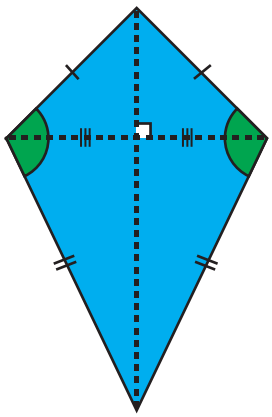
 **Parallelogram**	• Opposite sides are of equal length • Opposite sides are parallel	• Diagonally opposite angles are equal • The diagonals bisect each other (not at 90^0)
 **Trapezium**	• Has exactly one pair of parallel sides.	
 **Kite**	• Two pairs of sides are of equal length	• One pair of opposite angles are equal • Only one diagonal is bisected by the other • The diagonals cross at 90^0