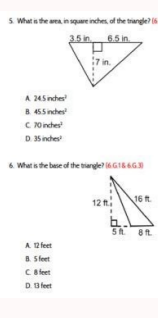
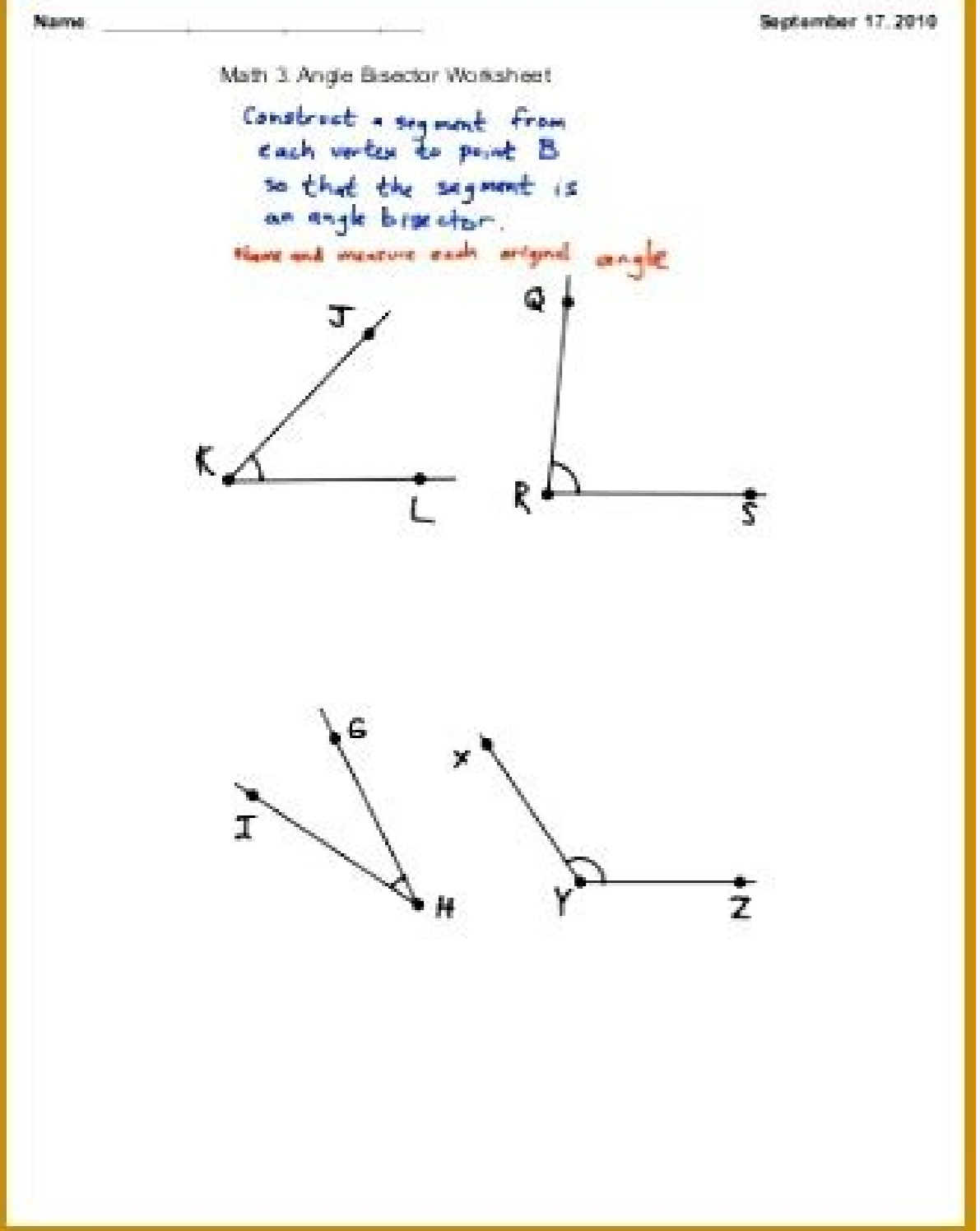


Continue



**A segment bisector** is a line, segment or ray that intersects a segment at its midpoint.

**Finish these Statements:**

If  $\overleftrightarrow{TV}$  bisects  $\overline{SO}$ , then  $E$  is the Mid. Pt. of  $\overline{SO}$ .

If  $E$  is the Mid. Pt. of  $\overline{SO}$ , then  $\overline{SE} \cong \overline{EO}$

- If  $JK$  is a perpendicular bisector of  $\overline{XY}$ , then the angles all measure  $90^\circ$ , and  $Z$  is the Mid. Pt. of  $\overline{XY}$ . Furthermore  $\overline{XZ} \cong \overline{ZY}$ .

- It does not mean that  $\overline{JZ} \cong \overline{ZK}$

**An angle bisector** is a line, segment or ray that divides an angle into two congruent angles.

- If  $\overline{AT}$  is an angle bisector of  $\angle MAH$ , then  $\angle 1 \cong \angle 2$ .

### 5-2 Bisectors of Triangles

A triangle has three angles, so it has three angle bisectors.

The angle bisectors of a triangle are also concurrent.

This point of concurrency is the **incenter of the triangle**.

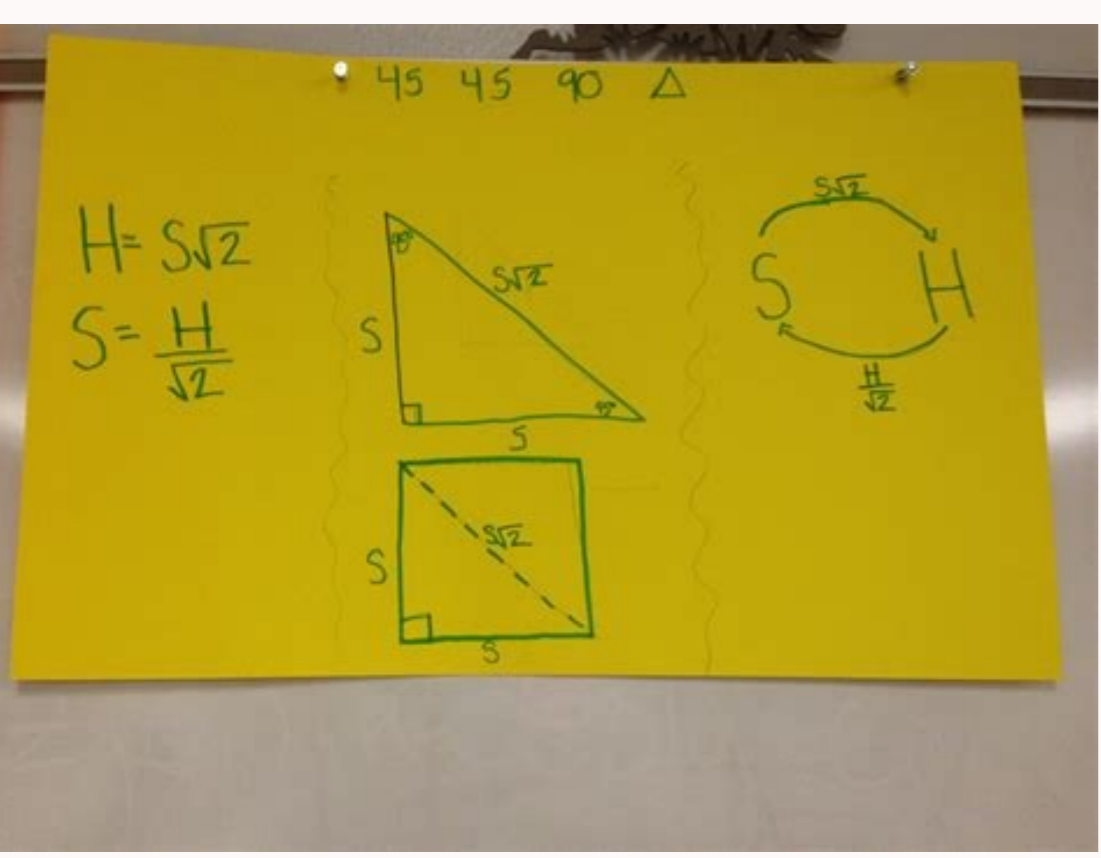
**Theorem Incenter Theorem**

The incenter of a triangle is equidistant from the sides of the triangle.

$PX = PY = PZ$

**Remember!**

The distance between a point and a line is the length of the perpendicular segment from the point to the line.



Concepts covered in Basic Concepts in Geometry are Basic Concept in Geometry, Basic concept of segment, ray and line, Betweenness, Conditional Statements and Converse, Co-ordinates of Points and Distance, Proofs. Concepts covered in Parallel Lines are Alternate Angles Test, Axiom: If a Transversal Intersects Two Parallel Lines, Then Each Pair of Alternate Interior Angles Are Equal., Axiom: If a Transversal Intersects Two Parallel Lines, Then Each Pair of Corresponding Angles is Equal., Axiom: If a Transversal Intersects Two Parallel Lines, Then Each Pair of Interior Angles on the Same Side of the Transversal is Supplementary., Checking Parallel Lines, Concept of Parallel Lines, Corresponding Angles Test, Interior Angles Test, Pairs of Lines - Transversals of Parallel Lines, Properties of Angles Formed by Two Parallel Lines and a Transversal, Test for Parallel Lines, Use of properties of parallel lines. Advertisement Remove all ads. Concepts covered in Triangles are Angle bisector theorem, Concept of Triangles - Sides, Angles, Vertices, Interior and Exterior of Triangle, Congruence of Triangles, Exterior Angle of a Triangle and Its Property, Isosceles Triangle : If Two Angles of a Triangle Are Equal, the Sides Opposite to Them Are Also Equal., Isosceles Triangles : If Two Sides of a Triangle Are Equal, the Angles Opposite to Them Are Also Equal., Median of a Triangle, Perpendicular bisector Theorem, Properties of inequalities of sides and angles of a triangle, Property of  $30^\circ$ - $60^\circ$ - $90^\circ$  Triangle Theorem, Property of  $45^\circ$ - $45^\circ$ - $90^\circ$  Triangle Theorem, Similarity of Triangles, Similar Triangles, Theorem of remote interior angles of a triangle. Concepts covered in Constructions of Triangles are Construction of Triangles, Perpendicular bisector Theorem, To Construct a Triangle, If Its Perimeter, Base and the Angles Which Include the Base Are Given., To Construct a Triangle When Its Base, an Angle Adjacent to the Base, and the Sum of the Lengths of Remaining Sides is Given., To Construct a Triangle When Its Base, Angle Adjacent to the Base and Difference Between the Remaining Sides is Given. Concepts covered in Quadrilaterals are Concept of Quadrilaterals - Sides, Adjacent Sides, Opposite Sides, Angle, Adjacent Angles and Opposite Angles, Converse of Mid-point Theorem, Properties of a Parallelogram, Properties of a Square, Properties of Isosceles Trapezium, Properties of Rectangle, Properties of Rhombus, Properties of Trapezium, Property: The adjacent angles in a parallelogram are supplementary., Property: The diagonals of a parallelogram bisect each other. (at the point of their intersection), Property: The Diagonals of a Rectangle Are of Equal Length., Property: The diagonals of a rhombus are perpendicular bisectors of one another., Property: The diagonals of a square are perpendicular bisectors of each other., Property: The Opposite Angles of a Parallelogram Are of Equal Measure., Property: The Opposite Sides of a Parallelogram Are of Equal Length., The Mid-point Theorem, Theorem : If Each Pair of Opposite Sides of a Quadrilateral is Equal, Then It is a Parallelogram., Theorem: If in a Quadrilateral, Each Pair of Opposite Angles is Equal, Then It is a Parallelogram., Theorem: If One Pair of Opposite Sides of a Quadrilateral Are Equal and Parallel, It is a Parallelogram., Theorem : If the Diagonals of a Quadrilateral Bisect Each Other, Then It is a Parallelogram. Concepts covered in Circle are Circumference of a Circle, Concept of Circle - Centre, Radius, Diameter, Arc, Sector, Chord, Segment, Semicircle, Circumference, Interior and Exterior, Concentric Circles, Construction of the Circumcircle of a Triangle, Construction of the Incircle of a Triangle, Properties of Chord, Properties of Congruent Chords, Relation Between Congruent Chords of a Circle and Their Distances from the Centre, Theorem: a Perpendicular Drawn from the Centre of a Circle on Its Chord Bisects the Chord., Theorem: Equal chords of a circle are equidistant from the centre., Theorem : The Chords of a Circle Which Are Equidistant from the Centre Are Equal., Theorem : The Segment Joining the Centre of a Circle and the Midpoint of Its Chord is Perpendicular to the Chord. Advertisement Remove all ads. Concepts covered in Co-ordinate Geometry are Cartesian System, Coordinate Geometry, Equations of Lines Parallel to the X-axis and Y-axis, Graphs of Linear Equations, Plotting a Point in the Plane If Its Coordinates Are Given. Concepts covered in Trigonometry are Important Equation in Trigonometry, Method of Using Trigonometric Ratios, Relation Among Trigonometric Ratios, Terms related to right angled triangle, Trigonometric Ratios and Its Reciprocal, Trigonometric Ratios of Complementary Angles, Trigonometric Ratios of Some Special Angles, Trigonometry. Concepts covered in Surface Area and Volume are Surface Area of a Cube, Surface Area of a Cuboid, Surface Area of a Right Circular Cone, Surface Area of a Sphere, Surface Area of Cylinder, Volume of a Cuboid, Volume of a Cylinder, Volume of a Right Circular Cone, Volume of Cube. 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