


## Triangles and exterior angles worksheet

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RESOURCES BY STANDARD AI GEO AII PLUS or [www.commoncorestatestandards.org](http://www.commoncorestatestandards.org) RESOURCES BY TOPIC AI GEO AII PRECALCULUS CALCULUS QUICK TOPICS REGENTS EXAMS WORKSHEETS JMAP ON JUMBLED An online platform for the above Algebra I resources REGENTS BOOKS AI LESSON PLANS WORKSHEET GENERATORS EXTRAS REGENTS EXAM ARCHIVES 1966-now JMAP RESOURCE ARCHIVES AI/GEO/AII (2015-now) IAG/EA2 (2007-17) Math AB (1999-2010) REGENTS RESOURCES INTERDISCIPLINARY EXAMS NYC TEACHER RESOURCES This lesson includes 23 additional questions and 207 additional question variations for subscribers. These task cards are perfect for students to practice finding the interior and exterior angles in triangles. These are problems from CK12, IXL, and Kuta Software formatted into task cards for easy implementation of engaging activities such as boom, scoot, speed dating, centers, stations, reviews, warm-ups, exit tickets, etc. There are 4 versions (sorry - will add the decimals version at a later date), recording sheet, and answer key (to come). Vocabulary Focus (identifying "interior" and "exterior" Page 2) Low Res Quadrilaterals Reference Postcard 4.5x6 inch size Low Resolution, 100 DPI Includes Definitions, Illustrations, Formulas, and Examples for the following: Diagonals\* Parallelograms\* Isosceles Trapezoid\* Midsegments of a trapezoid\* Kites\* Rectangles\* Rhombus\* Trapezoid Examples, illustrations, and formulas.\* Interior angles of a quadrilateral\* Sum of Interior Angles of any polygon\* Exterior Angles of a Polygon\* Solving for unknown angles in a polygon\* Solving for the Midsegment of a Model how to find a missing exterior angle with this eighth-grade geometry worksheet! The Triangle Exterior Angle Theorem states that the measure of an exterior angle of a triangle is equal to the sum of the two opposite interior angles. With two pages of practice problems, this worksheet will give students practice using this theorem to find missing exterior angles of triangles. As an added challenge, have students complete the Exterior Angles of Triangles: Solve for the Variable worksheet next! View answers Add to collection Assign digitally Common Core State Standards Texas Essential Knowledge and Skills (TEKS) Virginia Standards of Learning (SOL) Next Generation Science Standards (NGSS) BC Performance Standards Alberta Program of Studies The Australian Curriculum (ACARA) The Victorian Curriculum (P-10) Math Worksheets The worksheets on this page require grade school students to solve problems related to the angles of triangles, including calculating interior angles, calculating exterior angles and calculating the lengths of line segments created from triangle angle bisectors. Click the images below to open each PDF worksheet with answer keys and get your triangle geometry practice started! Calculating Interior Angles of Triangles The sum of the angles of a triangle postulate can be used to find a missing interior angle of a triangle given the other two angles. Triangle Sum Theorem Given a triangle ABC, the sum of the measurements of the three interior angles will always be 180°:  $\angle A + \angle B + \angle C = 180^\circ$  If you know two of the three angles of a triangle, you can use this postulate to calculate the missing angle's measurement. For example, if  $\angle A$  and  $\angle B$  are known,  $\angle C$  can be calculated using the following equation... Formula for Calculating a Missing Interior Angle of a Triangle Given a triangle ABC, where  $\angle A$  and  $\angle B$  are known,  $\angle C$  is calculated as follows:  $\angle C = 180^\circ - (\angle A + \angle B)$  A common problem is calculating a missing angle in a right triangle. In these triangle problems, we know that one of the angles must be exactly 90° therefore only one other angle must be known to calculate the third missing angle: Formula for Calculating a Missing Interior Angle of a Right Triangle Given a right triangle ABC, where  $\angle A$  is the right angle and where  $\angle B$  is known,  $\angle C$  is calculated as follows:  $\angle C = 180^\circ - (90^\circ + \angle B)$  Or, more succinctly...  $\angle C = 90^\circ - \angle B$  Another common problem involves finding the two base angles for an isosceles triangle given the triangles vertex or apex angle. Because the legs of an isosceles triangle are equal, the corresponding adjacent angles at the triangles base are also equal, so calculating the measure of the leg angles involves subtracting the vertex angle from 180° and dividing the result among the two remaining angles: Formula for Calculating Base Angles of an Isosceles Triangle Given an isosceles triangle ABC, where  $\angle A$  is the apex angle, the base angles  $\angle B$  and  $\angle C$  are calculated as follows: Calculating Exterior Angles of Triangles The exterior angle of a triangle is calculated using the properties of supplementary angles. By extending a line from one of the triangle's sides, the exterior angle can be calculated from the adjacent interior angle by subtracting that angle from 180°. Conversely, the interior angle can be calculated by from the exterior angle using procedure. The triangle worksheets on this page provide practice calculating interior angles given exterior angles, or calculating exterior angles given interior angles. Triangle Angle Bisector Theorem An angle bisector of a triangle is a line that divides one of the triangle's interior angles in half. The resulting line segment splits to opposite side of the triangle into two line segments. The Triangle Angle Bisector theorem states that the angle bisector divides the opposite side into two line segments that are proportionate to their adjacent sides. The triangle angle bisector worksheets on this page allow students to practice determining the length of these bisected sides for different types of triangles, starting with equilateral and isosceles triangles (where the bisected segments are equal), and progressing more generally to obtuse and acute triangles where the proportionate relationship is used to calculate two different lengths. Last updated 18 October 2018 A simple worksheet used as a starter/intro into exterior angles in triangles; exploring basic angle calculations, properties of an isosceles triangle and the sum of the opposite two interior angles. Creative Commons "Sharealike" Select overall rating (no rating) Your rating is required to reflect your happiness. Write a review Update existing review It's good to leave some feedback. Something went wrong, please try again later. Empty reply does not make any sense for the end user Empty reply does not make any sense for the end user Empty reply does not make any sense for the end user Report this resource to let us know if it violates our terms and conditions. Our customer service team will review your report and will be in touch.







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