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Angles in triangles worksheet answers

These free geometry worksheets will introduce you to the Triangle Sum Theorem, as you find the measurements of the interior angles of a triangle. The interior, or inside, angles of a triangle always add up to 180 degrees. In addition to your geometry skills, you'll be able to polish your algebra skills as you set up and solve equations on some of the tougher triangles. That's one great way to check your answer on these exercises, if the sum of your angles is 180, then you got 'em all correct. Sum of the Interior Angles of a Triangle Worksheet 1 - This angle worksheet features 12 different triangles. The measures of two angles are given and the third angle measurement is unknown. Sum of the Interior Angles of a Triangle Worksheet 1 RTF Sum of the Interior Angles of a Triangle Worksheet 1 PDF View Answers Sum of the Interior Angles of a Triangle Worksheet 2 - This angle worksheet features 12 different triangles. The measure of one angle is given, the other two angles are represented by algebraic expressions like 5x and x + 7. You can solve these problems in a variety of ways, my favorite is to set up and solve an equation that's equal to 180, like 5x + x + 7 + 75 = 180. Sum of the Interior Angles of a Triangle Worksheet 2 RTF Sum of the Interior Angles of a Triangle Worksheet 2 PDF View Answers Sum of the Interior Angles of a Triangle Worksheet 3 - This angle worksheet features 12 different triangles. The measure of each angle is represented by an algebraic expression. That's right, you're not give the measure of any of the three angles in the triangle. If you paid attention on the previous worksheet, this one should be a piece of cake! Sum of the Interior Angles of a Triangle Worksheet 3 RTF Sum of the Interior Angles of a Triangle Worksheet 3 PDF View Answers Here is a graphic preview for all of the Triangle Worksheets. You can select different variables to customize these Triangle Worksheets for your needs. The Triangle Worksheets are randomly created and will never repeat so you have an endless supply of quality Triangle Worksheets to use in the classroom or at home. We have a triangle fact sheet, identifying triangles, area and perimeters, the triangle inequality theorem, triangle inequalities of angles and angles, triangle angle sum, the exterior angle theorem, angle bisectors, median of triangles, finding a centroid from a graph and a set of vertices for your use. Our Triangle Worksheets are free to download, easy to use, and very flexible. These Triangle Worksheets are a great resource for children in 5th, 6th Grade, 7th Grade, and 8th Grade. Click here for a Detailed Description of all the Triangle Worksheets. Click the image to be taken to that Triangles Worksheets. Triangle Facts Worksheets This Triangle Worksheet will produce a useful definitions, facts and formulas handout for the students. This worksheet is a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Identify Triangles Worksheets This Triangle Worksheet will produce twelve problems for identifying different types of triangles. You may select equilateral, right scalene, right isosceles, obtuse scalene, obtuse isosceles, acute scalene and acute isosceles. This worksheet is a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Area and Perimeter of Triangles Worksheets This Triangle Worksheet will produce nine problems for solving the area and perimeter of different types of triangles. This worksheet is a great resources for the 5th, 6th Grade, 7th Grade, and 8th Grade. Triangle Inequality Theorem Worksheets This Triangle Worksheet will produce triangle inequality theorem problems. You can choose between between whole numbers or decimal numbers for this worksheet. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Triangle Inequalities of Angles Worksheets This Triangle Worksheet will produce triangle angle inequality problems. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Triangle Inequalities of Sides Worksheets This Triangle Worksheet will produce triangle side inequality problems. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Triangle Angle Sum Worksheets This Triangle Worksheet will produce triangle angle sum problems. You can choose between interior and exterior angles, as well as an algebraic expression for the unknown angle. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. The Exterior Angle Theorem Worksheet This Triangle Worksheet will produce exterior angle theorem problems. You can choose a single variable or an algebraic expression for the unknown angle. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Triangle Angle Bisectors Worksheets This Triangle Worksheet will produce angle bisector problems. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Medians of Triangles Worksheets This Triangle Worksheet will produce median problems. You may select the problem types to be integers, decimals, or algebraic expression. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Find the Centroid from a Graph Worksheets This Triangle Worksheet will produce problems to calculate the centroid from a graph. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Find the Centroid from Vertices Worksheets This Triangle Worksheet will produce problems where you find the centroid from a the vertices of a triangle. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Click here for More Geometry Worksheets This Triangle Worksheet will produce triangle angle sum problems. You can choose between interior and exterior angles, as well as an algebraic expression for the unknown angle. This worksheet is a great resource for the 5th, 6th Grade, 7th Grade, and 8th Grade. Click here for More Triangle Worksheets In any triangle, there are always three interior angles. These inside angles always add up to 180°. This rule is very helpful in finding missing angles in a triangle. Example 1: What is \(\angle {\text{B}}\)? All three angles have to add to 180°, so we have: \(\angle {\text{B }} + {\text{ 31 }} + {\text{ 45 }} = {\text{ 18}}0\) \(\angle {\text{B }} + {\text{ 76 }} = {\text{ 18}}0\) (combine like terms) \(\angle {\text{B }} = {\text{ 1}}0{\text{4}}^\circ \) Example 2: What is \(\angle {\text{D}}\)? This is a right triangle, so \(\angle {\text{E }} = {\text{ 9}}0^\circ \). \(\angle {\text{D }} + {\text{ 9}}0{\text{ }} + {\text{ 29 }} = {\text{ 18}}0\) \(\angle {\text{D }} + {\text{ 119 }} = {\text{ 18}}0\) \(\angle {\text{D }} = {\text{ 61}}^\circ \) Example 3: Sometimes, you'll need to use this property to solve for a variable. Solve for x. We know that all the angles have to equal 180°. \({\text{65 }} + {\text{ 4}}0{\text{ }} + {\text{ x }} + {\text{ 83 }} = {\text{ 18}}0\) \({\text{188 }} + {\text{ x }} = {\text{ 18}}0\) \({\text{x }} = {\text{ }} - {\text{8}}\) It's okay that x is a negative number. The angles in a triangle, however, should not be negative. Let's plug in our answer to make sure this is the case and to check our result. \({\text{65 }} + {\text{ 4}}0{\text{ }} + {\text{ }}\left({ - {\text{8 }} + {\text{ 83}}} \right){\text{ }} = {\text{ 18}}0\) \({\text{65 }} + {\text{ 4}}0{\text{ }} + {\text{ 75 }} = {\text{ 18}}0\) \({\text{18}}0{\text{ }} = {\text{ 18}}0\) ✓ Example 4: Sometimes, we won't know any of the angles to start with! Find all three angles. We can still use the fact that they have to add to 180°to figure this out. \({\text{3x }} + {\text{ 28 }} + {\text{ 5x }} + {\text{ 52 }} + {\text{ 2x }}--{\text{ 1}}0{\text{ }} = {\text{ 18}}0\) \({\text{1}}0{\text{ }} = {\text{ 18}}0\) \({\text{1}}0{\text{x }} + {\text{ 7}}0{\text{ }} = {\text{ 18}}0\) \({\text{1}}0{\text{x}} = {\text{11}}0\) \({\text{x }} = {\text{ 11}}\) Plug in x = 11 into all the angles to find their measures. \(\angle {\text{A }} = {\text{ 3x }} + {\text{ 28}}\) ►\({\text{3}}\left({{\text{11}}} \right){\text{ }} + {\text{ 28}}\) ► \({\text{33 }} + {\text{ 28 }} = {\text{ 61}}^\circ \) \(\angle {\text{B }} = {\text{ 5x }} + {\text{ 52}}\) ► \({\text{5}}\left({{\text{11}}} \right){\text{ }} + {\text{ 52}}\) ► \({\text{55 }} + {\text{ 52 }} = {\text{ 1}}0{\text{7}}^\circ \) \(\angle {\text{C }} = {\text{ 2x }}-{\text{ 1}}0\) ► \({\text{2}}\left({{\text{11}}} \right){\text{ }}-{\text{ 1}}0\) ► \({\text{22 }}-{\text{ 1}}0{\text{ }} = {\text{ 12}}^\circ \) Below you can download some free math worksheets and practice.

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