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Get into high gear with our free printable Pythagorean theorem worksheets! The Pythagorean theorem, or Pythagoras's theorem, is one of the important theorems in geometry. Among the several beneficiaries of this theorem are advanced topics like trigonometry and various other practical applications. In this set of Pythagorean theorem pdf worksheets, we get children practicing skills like finding the hypotenuse, finding the missing side lengths of a right triangle, identifying Pythagorean triples, identifying a right triangle using the converse of the theorem, and plenty more! Work out all exercises and gain instant insight into the topic! Our Pythagorean theorem worksheets work best for 7th grade, 8th grade, and high school students. CCSS: 8.G, HSA-APR The Pythagorean theorem states that in a right triangle, the square of the hypotenuse is equal to the sum of the squares of the legs, or  $a^2 + b^2 = c^2$ . In this eighth-grade geometry worksheet, Pythagorean Theorem: Find the Missing Hypotenuse, students will practice using the Pythagorean theorem to find missing hypotenuse lengths on right triangles. This two-page practice worksheet is a great way to prepare students to solve real-world and mathematical problems involving right triangles. For more practice with the Pythagorean theorem, have students complete the Pythagorean Theorem: Find the Missing Leg worksheet next! View answersAdd to collectionAssign digitallyCommon Core State StandardsTexas Essential Knowledge and Skills (TEKS)Virginia Standards of Learning (SOL)Next Generation Science Standards (NGSS)BC Performance StandardsAlberta Program of StudiesThe Australian Curriculum (ACARA)The Victorian Curriculum (F-10) Name: \_\_\_\_\_ Math Worksheets Date: \_\_\_\_\_ So Much More Online! Please visit: [www.EffortlessMath.com](http://www.EffortlessMath.com) Answers Pythagorean Relationship 1 Yes 2 Yes 3 No 4 Yes 5 No 6 No 7 Yes 8 Yes 9 5 10 17 1115 12 8 13 5 14 30 15 30 16 12 59 Downloads Preview and Download 1 Pythagorean Theorem S W E N 35 mi 42 mi? 10 in 24 in? 8 ft 15 ft? Solve the word problems. Round the answer to the nearest tenth. Answer Key Level 1: S1 Score : Printable Math Worksheets @ [www.mathworksheets4kids.com](http://www.mathworksheets4kids.com) Name : Mark is on his way home from work. He drives 35 miles due North and then 42 miles due 64 Downloads Preview and Download 1 Distance Formula & Pythagorean Theorem Name \_\_\_\_\_ ID: 2 Date \_\_\_\_\_ Period \_\_\_\_\_ ©M E2h0U115G mKaujTBaP TSSoYfYtpwUazrver MLzLcCu.W X IAnlGlg jrrlfgPhJtVsX PrXeVsleBrdvSeldK.-1-Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary. 1) x y -4-224-4-2 2 4 2) x y-4-224-2 2 4 3) (-2, 4 ... 2 Downloads Preview and Download 1 Pythagorean Theorem Assignment A) Calculate the measure of x in each. Where necessary, round your answer correct to one decimal place. Complete on a separate piece of paper. B) A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder? Draw a diagram and show all work. 17 Downloads Preview and Download 1 Pythagorean Theorem Word Problems- Independent Practice Worksheet 1.Find the hypotenuse of a triangle with a base of 11 cm and height of 9 cm. 2.Maria walked 3 km west and 4 km south. Calculate how far she is from her starting point. 3.Lena's guest house is 15 m long and 12 m wide. How long is the diagonal of the house? 4 Downloads Preview and Download 1 12)\* The\*diagram\*below\*shows\*ashadedparallelogram\*drawninside\*a rectangle.UsingPythagoras,findthehypotenuseoftriangleAand\* the\* hypotenuse\*of\*triangle\*Bto1\*decimal ... 14 Downloads Preview and Download 1 Mathematics Plus 2003 [www.geocities.com/mathematicsplus/resources](http://www.geocities.com/mathematicsplus/resources) USING PYTHAGORAS THEOREM - SOME CHALLENGING QUESTIONS COURSE/LEVEL NSW Secondary High School Year ... 11 Downloads Preview and Download 1 IXL Practice Worksheets Creating 0.1, 0.2, (8th) At Least to 80 Score = \_\_\_\_\_ Level 2: Pythagorean Theorem Showing 2 Examples of using Pythagorean Theorem (1 finding hyp./1 finding leg) 3. Take the Schoology Quiz (Level 2: Pythagorean Theorem) Score of 4 or higher move to level 3 Score of 3 or less, complete 1 of the following tasks 2 Downloads Preview and Download 1 The Pythagorean Theorem ... Step 1Using the Dissection of Squares worksheets or the Sketchpad demonstration will speed the investigation, but the use of many different triangles drawn by the students strengthens the inductive conclusion. The constructions are quicker with patty paper than 29 Downloads Preview and Download 1 the investigation, is the first step toward proving the Pythagorean Theorem. There are more than 200 proofs of the Pythagorean Theorem. Elisha Scott Loomis's Pythagorean Proposition, published in 1927, contains original proofs by Pythagoras, Euclid, Leonardo da Vinci, and U.S. President James Garfield. One well-known proof is included below. 7 Downloads Preview and Download 1 Next results >> The Pythagorean theorem was reportedly formulated by the Greek mathematician and philosopher Pythagoras of Samos in the 6th century BC. It says that the area of the square whose side is the hypotenuse of the triangle is equal to the sum of the areas of the squares whose sides are the two legs of the triangle. If you write it in the form of an equation, it looks like this:  $a^2 + b^2 = c^2$  In this equation, c represents the length of the hypotenuse, while the legs are represented by a and b. In this form, the Pythagorean theorem enables you to find the length of any side in a right triangle if you know the other two, as well as to check if a triangle is a right triangle. This proves quite useful in solving math problems during education, as well as in a number of real life situations. We are going to illustrate this through these few examples: Example 1 The length of one side is 9 cm and the length of the other side is 10 cm. Calculate the length of the hypotenuse. This is a very simple problem. We know the length of two sides of the triangle and to determine the length of the hypotenuse, we just have to insert the lengths we know into the equation.  $c^2 = a^2 + b^2$   $c^2 = 9^2 + 10^2$   $c^2 = 81 + 100$   $c^2 = 181$   $c = 13.5$  cm We see now that the missing length of the hypotenuse is 13.5 cm and that is our result. The next assignment will be a bit more complicated. Example 2 The length of the hypotenuse is 10.6 cm and the length of one of the legs is 5.2 cm. Find the length of the other leg of the triangle. This is also very simple. Let us name the hypotenuse c and the side we already know - a. The missing side is b. To get b from our equation we need to rearrange it a bit. Like this:  $b^2 = c^2 - a^2$  The only thing left to do now is to insert the known values into the equation,  $b^2 = 10.6^2 - 5.2^2$   $b^2 = 112.36 - 27.04$   $b^2 = 85.32$   $b = 9.2$  cm The length of the missing side is 9.2 cm. Now let us take a look at one more example. Example 3 The length of the hypotenuse is 6.5 cm, the length of leg a is 5.6 cm and the length of leg b is 3.3. Do these sides belong to a right triangle? As before, this can also be solved easily. We will take the lengths of two sides of the triangle in question, calculate the length of the third using the Pythagorean theorem and check if our result is a match to the length of the hypotenuse of our triangle. We will do it like this:  $c^2 = 5.6^2 + 3.3^2$   $c^2 = 42.25$   $c = 6.5$  cm As we can see, the length we calculated if identical to the given length of this triangle. This means that the triangle in question is indeed a right triangle. These are just some of the numerous uses of the Pythagorean theorem. If you wish to practice working with the Pythagorean theorem, please feel free to use the math worksheets below. 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