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These two videos will increase your understanding of this important GCSE IGCSE topic. First of all we will take some longer time to accurately identify the hypotenuse of the right-English triangle. Students who successfully and confidently implement Pythagoras' theorem still take some time to do so well. The second video will prove the theorem by looking at the area of Pershing Square. Although it is not necessary for GCSE IGCSE students to be able to prove the Pythagoras theorem, it is still very useful to understand where the formula comes from and looks the way it is done. So prepare yourself well for your IGCSE GCSE Math Exam and examine these two mathematical activities well! When you've studied the previous videos about Pythagoras' theorem, it is time to try some questions yourself. Please don't try these questions too quickly. It's important to have examined the theory first before moving on to this activity. When you start party boarding on Pythagoras theorem, ask the video and try to answer the math questions yourself first. Of course you'll write all your work down. When you are finished you can continue looking at the video and compare your answers with me. Good luck and have fun! I hope that these mathematical videos on Pythagoras' theorem have been useful for you. If you still have a question or still don't understand Pythagoras' theorem, then please don't hesitate to contact me and I will help you with your math. You can leave a message on the forum on the homepage of this website. You can also subscribe to my YouTube channel and leave me a message there. When you have studied all the videos above, try the activity sheet below. You are asked to find/calculate the length of missing in each triangle. Make sure that you for every question are written down as much as working as you can (like I've shown you in my instructional video). Scroll down for the responses which you'll find on the second page. You can also download this FREE math worksheet below the forbidden document. Good Luck!

ig_pythagoras_theorem_pret_hw.pdf File Size: 308 kb File Type: pdf Download File pythagoras_theorem.docx File Size: 38 kb File Type: docx Download File Level 4-5 The equation is: $a^2 + b^2 = c^2$ where c is the hypotenuse and a and b are the two other locations. The hypotenuse is still the longest side of the triangle and can get opposite the right angle. Find the length of location c on the right English triangle shown. [2 marks] In order to get this using the term 'Pythagoras', we need to work out what side match each of the letters a , b , and c in the equation. $c = 10$ cm, $a = 6$ cm, $b = 8$ cm. $a^2 + b^2 = c^2$ then we can replace them are values in for the equation $a^2 + b^2 = c^2$ gets: $6^2 + 8^2 = c^2$ where c is the hypotenuse and a and b are the two other locations. The hypotenuse is still the longest side of the triangle and can get opposite the right angle. Find the length of location c on the right English triangle shown. [2 marks] In order to get this using the term 'Pythagoras', we need to work out what side match each of the letters a , b , and c in the equation. $c = 10$ cm, $a = 6$ cm, $b = 8$ cm. $a^2 + b^2 = c^2$ then we can resolve to $6^2 + 8^2 = c^2$ then we can replace long following in P Theme theory: $a^2 + b^2 = c^2$ First we plot the two points on a pair of axes, draw a line to connect them and then to draw a triangle under make a score of the lengths in their side: side 1 (height) = 4, side 2 (width) = 3. $a^2 + b^2 = c^2$ Next we replace long following in P Theme theory: $a^2 + b^2 = c^2$ to calculate, when finding the length of a line between two points, will always be the hypothesis. The missing side is the hypotenized, by replacing the 2 locations we know of the equation $a^2 + b^2 = c^2$ get: $8^2 + 14^2 = c^2$ evaluating the two squares given to us: $c^2 = 64 + 196$ $c^2 = 260$ then square root of both sides of the equation to us: $BC = \sqrt{260} = 16.124515 \dots = 16.1$ cm (1 dp). To do this, we draw the dots on a graph and draw a line that connects them. We then constructed a right-English triangle. The resulting picture looks: We can see that the distance between the two dots is the longest side of a right-angle triangle - the hypotenuse. So don't replace the locations known in the equation $a^2 + b^2 = c^2$ get: $10^2 + 3^2 = c^2$ evaluated the squares given to us: $c^2 = 100 + 9 = 109$ Finally, by root square both sides, we found: $c = \sqrt{109} = 10.44036551 \dots = 10.4$ cm (3 sf). The missing side is the hypotenuse, so don't replace the locations known in the equation $a^2 + b^2 = c^2$ we get: $5.9^2 + 6.7^2 = c^2$ Evaluates two squares to us: $c^2 = 34.81 + 44.89 = 79.7$ then by root square both sides of this equation, we found: $QR = \sqrt{79.7} = 8.927485648 \dots$ $QR = 8.9$ cm (1 dp). Do not replace the locations known in Pythagoras' c Theorem $a^2 + b^2 = c^2$ gets: $5.1^2 = LN^2 + 3.1^2$ Next n evaluate the two squares given to us: $26.01 = LN^2 + 9.61$ Subtract 9.61 from both sides: $16.4 = LN^2$ then we square root both sides of this equation: $LN = \sqrt{16.4} = 4.049691346 \dots$ $LN = 4.0$ cm (1 dp). Do not replace the locations known in Pythagoras' c Theorem $a^2 + b^2 = c^2$ gets: $2.9^2 = a^2 + 1.3^2$ Calculate the square roots and appointments to us: we: Then, by square root of both sides of this equation, we get: $a = \sqrt{6.72} = 2.592296279a = 2.6$ cm (1 d.p.) Copyright © 2004 – 2020 World Review Network Ltd. This lesson can be used for review for the higher GCSE math. Examples are quick and considered with test style questions, go to GCSE Maths if you need more in-depth explanations. How and When to Use Theorem in Pythagoras When to Use Pythagoras Theorem? - You are given a right English triangle - You are given two places and asked to find their third location - the figure is not mapped to scale There are two cases: Case 1: Find the longest side. (The longer side is the opposite right angle) Case 2: Find the shortest side. Go to calculator lessons in free mathematics and issues below practicing various mathematical topics. Try the given example, or type in your own issue and check your response with the step-by-step explanation. We welcome your feedback, comments and questions on this site or page. Please submit your feedback or question via our Feedback page. 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