Proofs using cpctc worksheet answers

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This chapter review includes triangle proofs - proving them (SSS, SAS, AAS, ASA, HL), using CPCTC, using Isosceles Triangle Theorem and its converse. These proofs also review previous material: Definition of Midpoint, Definition of Segment Bisector, Definition of Perpendicular Lines, Alternate Interior Angles Theorem, Reflexive Property of Congruence. There is also algebraic practice with Triangle Sum Theorem and finding angle measures.Page 2Proofs used to scare me and my students, but with scaffolding, structure, and support, we've all increased our confidence. This is the middle of a series of activities I do with my students, from introducing two-column proofs with algebra, identifying triangle proof statements, completing two-column proofs with triangles, then introducing CPCTC. This is the third in that series, and I'll upload them as soon as I create the TPT version. This set utilizes the SSS, SAS, ASA, and AAS theorems, verti Congruent Triangles Proofs with CPCTC Practice Worksheets (Classwork and Homework): This set of classwork and homework assignments will help your students practice proving that triangles are congruent and that corresponding parts of congruent triangles are congruent (CPCTC). The majority of the proofs in these assignments involve proving that "base angles of isosceles triangles are congruent" and proving that "points on a perpendicular bisector of a line segment are exactly those equidistant from the segment's endpoints." These practice worksheets include a 2-page classwork assignment and a 2-page homework assignment, for a total of 4 pages of practice! The classwork assignment includes proofs where students have to fill in a mixture of statements and reasons, and proofs where students have to fill in the entire proof. The classwork assignment has 6 proofs. Most of the proofs are 6 or 7 steps. The homework assignment includes the same types of proofs as the classwork assignment. The last proof on this assignment is a more challenging proof. There are 6 proofs on the homework assignment, and the proofs range from 4 to 7 steps. The "Reasons" used in these proofs are: Reflexive Property of Congruence, All right angles are congruent; Definition of Segment Bisector; Definition of Angle Bisector; AAS; ASA; SAS; CPCTC; Vertical angles are congruent; Definition of Perpendicular Lines; Each angle has one unique bisector; and If parallel lines are cut by a transversal, then alternate interior angles are congruent. This set of practice worksheets comes with 4 pages of practice (1 classwork assignment and 1 homework assignment), answer keys, and a PowerPoint file containing pictures of the worksheets and keys. The worksheets on the PowerPoint are NOT editable. When you purchase this set of practice worksheets, you will receive a pdf containing the worksheets and answer keys, and you will receive a PowerPoint file. Before purchasing this product, please review the preview file closely to make sure that these proofs are appropriate for your students. Terms of Use: This product is intended for use by one teacher. Do not share this resource with other teachers in your school building, district, etc. Do not post this resource or any part of this resource on the internet, on school websites or on network drives. The appropriate number of licenses should be purchased if you wish to use this resource for multiple teachers in a school, district, or organization. Do not share, transmit, or reproduce any part of this resource without the permission of the author. Thank You! How to Earn Credits by Giving Feedback: Did you know that you can earn credits toward future purchases when you leave feedback on an item? You can do this by clicking on "My Purchases" under the "Buy" menu. The CPCTC theorem states that when two triangles are congruent, their corresponding parts are equal. The CPCTC is an abbreviation used for 'corresponding parts of congruent triangles are congruent'. What is CPCTC? The abbreviation CPCTC is for Corresponding Parts of Congruent Triangles are Congruent. The CPCTC theorem states that when two triangles are congruent, then every corresponding part of one triangle is congruent to the other. This means, when two or more triangles are congruent then their corresponding sides and angles are also congruent or equal in measurements. Let us understand the meaning of congruent triangles and corresponding parts in detail. Congruent Triangles Two triangles are said to be congruent if they have exactly the same size and the same shape. Two congruent triangles have three equal sides and equal angles with respect to each other. Corresponding Parts Corresponding sides mean the three sides in one triangle are in the same position or spot as in the other triangle. Corresponding angles mean the three angles in one triangle are in the same position or spot as in the other triangle. In the given figure, $\triangle ABC \cong \triangle LMN$. It means that the three pairs of sides and three pairs of angles of $\triangle ABC$ are equal to the three pairs of corresponding sides and three pairs of corresponding angles of $\triangle LMN$. In these two triangles ABC and LMN, let us identify the 6 parts: i.e. the three corresponding sides and the three corresponding angles. AB corresponds to LM, BC corresponds to MN, AC corresponds to LN. $\angle A$ corresponds to $\angle L$, $\angle B$ corresponds to $\angle M$, $\angle C$ corresponds to $\angle N$. And if $\triangle ABC \cong \triangle LMN$, then as per the CPCTC theorem, the corresponding sides and angles are equal, i.e. AB = LM, BC = MN, AC = LN, and $\angle A = \angle L$, $\angle B = \angle M$, $\angle C = \angle N$. CPCTC Triangle Congruence CPCTC states that if two triangles are congruent by any criterion, then all the corresponding sides and angles are equal. Here, we are discussing 5 congruence criteria in triangles. Criterion Explanation CPCTC SSS All the 3 corresponding sides are equal All the corresponding angles are also equal AAS 2 corresponding angles and the non included side are equal The other corresponding angles and the other 2 corresponding sides are also equal ASA 2 corresponding angles and the included sides are equal The other corresponding angles and the other 2 corresponding sides are also equal SAS 2 corresponding sides and the included angle are equal The other corresponding angles and the other 2 corresponding sides are also equal RHS / HL The hypotenuse and one leg of one triangle are equal to the corresponding hypotenuse and a leg of the other The other corresponding legs and the other two corresponding angles are equal CPCTC Proof To prove CPCTC, first, we need to prove that the two triangles are congruent with the help of any one of the triangle congruence criteria. For example, Consider triangles ABC and CDE in which BC = CD and AC = CD are given. Follow the points to prove CPCTC BC = CD and AC = CD (Given) $\angle ACB = \angle EDC$ (Vertically opposite angles are equal) Thus, $\triangle ABC \cong \triangle EDC$; By SAS (side-angle-side) criterion Now the two triangles are congruent, therefore, using CPCTC, AB = DE, $\angle ABC = \angle EDC$ and $\angle BAC = \angle DEC$. Important Notes Given below are some important notes related to CPCTC. Have a look! Look for the congruent triangles keeping CPCTC in mind. Before using CPCTC, show that the two triangles are congruent. Related Articles on CPCTC Check out these interesting articles to know more about CPCTC and its related topics. Corresponding Angles Triangles Angles Congruence in Triangles Example 1: Observe the figure given below and find the length of LM using the CPCTC theorem, if it is given that $\triangle EFG \cong \triangle LMN$. Solution: Given that $\triangle EFG \cong \triangle LMN$. So, we can apply the ASA congruence rule to it which states that if two corresponding angles and the included side are equal in two triangles, then the triangles will be congruent. Here, two angles are given which are 30 degrees and 102 degrees such that $\angle EFG = \angle LMN$ and $\angle FEG = \angle MLN$. So, by applying the CPCTC theorem we can identify that FE and ML are the corresponding sides of two congruent triangles $\triangle EFG$ and $\triangle LMN$. Therefore, FE = ML. Hence, the length of side LM is 3 units. Example 2: Observe the figure given below in which PR = RS and QR is perpendicular to PS. Find y using the CPCTC theorem. Solution: First let us prove that $\triangle PQR \cong \triangle SQR$, PR = RS (given) QR = QR (common side) $\angle QRP = \angle QRS$ (as QR is perpendicular to PS) Therefore, $\triangle PQR \cong \triangle SQR$ (SAS criterion) PQ = QS (By CPCTC) Now as PQ = QS Therefore, 4y = 28 Answer → y = 7 units View More > go to slidego to slide Have questions on basic mathematical concepts? Become a problem-solving champ using logic, not rules. Learn the why behind math with our certified experts Book a Free Trial Class FAQs on CPCTC Yes. CPCTC is a theorem that says corresponding parts of congruent triangles are congruent. Corresponding means angles and sides that are in the same respective position in the two triangles. What is CPCTC for Similar Triangles? CPCTC for similar triangles is not true. So, we cannot apply the CPCTC theorem for similar triangles. Corresponding angles of the two similar triangles are equal, whereas, corresponding sides of the triangles are not equal, but proportional. How do you Prove CPCTC? After showing the proposed triangles are congruent, we can immediately say that the corresponding parts of the congruent triangles are congruent. It can be justified by superimposing triangles on each other and then by observing the corresponding angles and side lengths. What does CPCTC Stand for? CPCTC stands for corresponding parts of congruent triangles are congruent. Sometimes, it is also called CPCT which means corresponding parts of congruent triangles are congruent. What is an Example of CPCTC? The theorem CPCTC tells that when two triangles are congruent then their corresponding sides and angles are also equal to be congruent. For example, triangle ABC and triangle PQR are congruent triangles therefore according to the theorem the sides AB = PQ, BC = QR, and CA = RP. Also $\angle A = \angle P$, $\angle B = \angle Q$, and $\angle C = \angle R$. How do you Prove CPCTC Using SSS Criterion? In SSS triangle congruence all the three corresponding sides are equal. In other words, the two triangles are said to be congruent if all corresponding sides of one triangle are equal to the sides of another triangle. Thus, when two triangles are congruent then according to CPCTC all the corresponding angles are also equal. How do you Prove CPCTC Using SAS Criterion? In SAS triangle congruence the two corresponding sides and the included angle are equal. In other words, the two triangles are said to be congruent if two corresponding sides and the included angle are equal. Thus, when two triangles are congruent then according to CPCTC the other corresponding side and the other two corresponding angles are also equal.

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