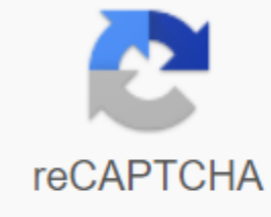




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Click the pop-up icon or print icon in the worksheet to print or download. Issue 1 : In the diagram below, demonstrate that the  $\cong$  PQW using two column tests. Issue 2 : In the diagram below, demonstrate that the  $\cong$  the BSE using the two-column test. Issue 3 : In the diagram below, demonstrate that the  $\cong$  the ABC using two column tests. Issue 4 : In the diagram below, demonstrate that the  $\cong$  FJHG with two column tests. Issue 5 : In the diagram below, demonstrate that the  $\cong$  ABC file. 6 :Check if two ABC and CDE triangles are congruent. Issue 7 :Check if two PQR and RST triangles are congruent. Issue 8 :Check if two ABD and ACD triangles are congruent. Detailed Response Key Issue 1 : In the diagram below, demonstrate that the  $\cong$  of the PQW key. Solution : Public  $\cong \cong \cong$  TWQW  $\cong \cong$  which indicategivenGivenGivenGivenGivenGvenSSSS Congruence Postulate Problem 2: In the diagram below, it proves that the  $\cong$  of BSE. Solution : DeclarationsAE  $\cong$  DE, BE  $\cong$  CE  $\angle 1 \cong \angle 2$ -AEB  $\cong$  -EC ReasonsGivenVertical Angles TheoremSAS Congruence Postulate Problem 3 : In the diagram shown below, prove that the deBC  $\cong$ . BCAD  $\cong$  Statements ? EC  $\angle D \cong \angle C$   $\angle ABD \cong \angle ECB$ -ABD  $\cong$  abc ReasonsGivenGivenAlternate inner angles TheoremVertical Angles TheoremASA Congruence Postulate Problem 4 : In the diagram shown below, demonstrate that the JHG  $\cong$ . StatementsFE  $\cong$  JH  $\angle E \cong \angle J$   $\angle EGF \cong \angle JGH$ -EFG  $\cong$  -JHG ReasonsGivenVertical Angles TheoremAAS Congruence Postulate Problem 5 : In the diagram shown below, test that ABC  $\cong$ . Solution :D thid to AB 5 in triangle ABC and FG 5 in triangle FGH, AB  $\cong$  FG. Because AC 3 in triangle ABC and FH 3 in triangle FGH, AC  $\cong$  FH. Use the distance formula to find the BC and GH lengths. BC Length : BC to  $\sqrt{[(x_2 - x_1)^2 + (y_2 - y_1)^2]}$ Here (x<sub>1</sub>, y<sub>1</sub>) to B(-7, 0) y (x<sub>2</sub>, y<sub>2</sub>) to C(-4, 5)BC to  $\sqrt{[(-4 + 7)^2 + (5 - 0)^2]}$ BC -  $\sqrt{[3^2 + 5^2]}$ BC -  $\sqrt{[9 + 25]}$ BC -  $\sqrt{34}$ During GH : GH a  $\sqrt{[(x_2 - x_1)^2 + (y_2 - y_1)^2]}$ Here (x<sub>1</sub>, y<sub>1</sub>) to G(1, 2) and (x<sub>2</sub>, y<sub>2</sub>) to H(6, 5)GH to  $\sqrt{[(6 - 1)^2 + (5 - 2)^2]}$ GH á  $\sqrt{[5^2 + 3^2]}$ GH á  $\sqrt{[25 + 9]}$ GH -  $\sqrt{34}$ Conclusion :P b -  $\sqrt{34}$  and GH -  $\sqrt{34}$ , BC  $\cong$  GHAll three pairs of corresponding sides are congruent. By SSS congruence postulate, ABC  $\cong$ . FGHProblem 6 :Check if two ABC and CDE triangles are congruent. Solution :(i) TRIANGLE ABC and CDE triangle are straight triangles. Because they both have a right angle. (ii) AC to CE (Leg)(ii) BC - CD (Leg)Hence, the two triangles ABC and CDE are congruent by Leg-Leg theorem. Issue 7 :Check if two PQR and RST triangles are congruent. Solution :(i) PQR Triangle and RST Triangle are straight triangles. Because they both have a right angle. (ii) QR - RS (Given)(iii)  $\angle PRQ - \angle SRT$  (vertical angles)Therefore, the two triangles PQR and RST are congruent by acute leg angle (LA) theorem. Issue 8 :Check if two ABD and ACD triangles are congruent. Solution :(i) ABD Triangle and ACD Triangle are straight triangles. Because they both have a right angle. (i) AB - AC (Hypotenuse)(ii) AD - AD (common side, leg)Therefore, the two ABD and ACD triangles are congruent by hypotenuse-leg theorem (HL). Apart from the things given above, if you need anything else in math, please use our custom Google search here. If you have any comments about our math content, please email us : v4formath@gmail.com We always appreciate your feedback. you can also visit the following websites about different things in math. 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C.M. to solve time and work problems Transduce the word problems into algebraic expressionsRemainder when 2 power 256 is divided by 17Remainder when 17 power 23 is divided by 16S three-digit digits divisible by 6Sum of the three digit numbers divisible by 7Sum of the three digits numbers divisible by 8Sum of three-digit numbers formed using 1 , 3, 4Sum of the three four-digit numbers formed with non-zero digitsSum of the three four-digit numbers formed using 0, 1, 2, 3Sum of the three four-digit numbers formed using 1 1 , 2, 5, 6 copyrights onlinemath4all.com SBI! The origin of the word congruent comes from the Latin word congruere meaning corresponds to or in harmony. Here is a collection of worksheets of congruent triangles on key concepts such as congruent parts of congruent triangles, the of postulates, congruence in straight triangles and much more for the exclusive use of eighth graders and high school students. 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introduce the congruence of triangles. Complete the congruence instruction by typing the corresponding side or corresponding angle of the triangle. The response key is included. Type the Congruence Write congruence statement for each pair of triangles in this set of congruent triangle worksheets. Observe the congruent parts frequently and write the statement in the correct order. Indicate that congruent angles and grade 8 side students should mark the corresponding congruent angles and congruent sides in each pair of triangles for the given congruence declarations that appear in the pdf worksheets. Identify and write postulates This range of printable worksheets is based on the four AAS, ASA, SAS, and SSS postulates. Analyze each pair of triangles and indicate the postulate to prove that the triangles are congruent. Type the Missing Congruence Note the corresponding parts of each pair of triangles, and type the third congruence property required to test the given congruence postulate. Postulates of congruence in Straight Triangles We widely classify congruence postulates in straight triangles into four: LL, HL, HA, LA. Indicate the correct postulate to demonstrate that each pair of straight triangles in this set of printable practices is congruent. Missing Congruence Property in Straight Triangles This compilation of high school pdf worksheets focuses on the congruence of straight triangles. Determine the missing congruence property in a couple of triangles to justify the postulate. Postulated.

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