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Geometry chapter 4 workbook answers

If BCDE is consistent with OPQR, decongruous with a. QR v. OP d. OR 155 b. 90 c. 35 d. 25 3. Use the information provided in the diagram. Say why PS can ≅ QR and ∠PQR ≅ ∠RSP. a.b.c. d. b. . 2. On the paper aircraft, ABCD ≅ EFGH, m∠B to m∠BCD at 90 and m∠BAD to 155. Find M∠GHE. a. ___ 5. ∠BAC ≅ a. ____ ∠NPM b. ∠NMP v. ∠MNP d. ∠PNM ΔFDE ≅ Reflective Property, Transitive Property Transitive Property Dada, Reflective Property Dada, Reflective Property Dada, Dada 4. If ΔΚLM ΔSTU file, which of the following cannot conclude as true? a. ∠L ≅ ∠T b. ∠K ≅ ∠S v. KL ≅ SU d. LM ≅ TU 1 Name: ___ Δ HFG Δ EDF \cong Δ GFH c. d. Δ FED \cong Δ H Δ FFD \cong Δ HF 7. The two triangles are congruent as their appearance suggests. Find the value of g. Diagrams are not for scaling. a. ____ ? 6. What congruence statement does NOT necessarily describe the triangles shown if Δ DEF \cong Δ FGH? a.b. ____ ID: A 17 b. 15 c. 90 a.d. 8 8. Given Δ QRS \cong Δ TUV, QS at 3v +4. and TV at 6v to 8. look for QS and TV length a. 32 b. 4 c. 16 d. 17 2 Name: _____ __ Given ΔABC \cong ΔPQR, m∠B to 5v + 2 and m∠Q to 6v to 8, look for m∠B and m∠Q. a. 52 b. 68 c. 53 a.m. 71 ____ 10. Justify the last two steps of the test. Given: RS \cong UT and RT \cong US Prove: ΔRST \cong ΔUTS Proof: 1. RS \cong UT 2. RT \cong US 3. ST \cong TS 4. ΔRST \cong ΔUTS a.b. 1. Given 2. Given 3. ? 4. ? Reflective Property of ≅; SSS Symmetric property of ≅; SSS Symmetric property of ≅; SSS Reflective Property of ≅; S _ID: A ____12. Indicate whether ΔABC and ΔAED are congruent. Justify your answer. a.b.c. d. yes, by SSS only yes, by SSS only yes, by SSS or SAS No; there is not enough information to conclude that the triangles are congruent. ____13. Name the angle included on the NM and MP sides. a. ∠M b. ∠N c. ∠P d. none of ∠BAC 3. AC ≅ AC 1. Given 2. Definition of biseector angle 3. Reflective property 4. CA bisects ∠DCB 5. ∠DAC ≅ ∠BCA 6. ≅ ΔDAC 4. Given 5. Definition of biseector angle 6. ? —— → — → a.b. SAS Postulate v. d. AAS Theorem ASA Postulate ____ 16. From the diagram information, can you test ΔFDG ≅ ΔFDB? Explain. A.b. Yes, _ ID: A _____ 17. Can you use ASA postulate, AAS theorem, or both to test congruent triangles? a.b. ASA only ASA or AAS v. d. ASA only nor _____ 18. What else do you need to know to test the congruent triangles by ASA? For SAS? a.b. \angle ADC \cong \angle CAB; AD \cong BC \angle ACD \cong \angle CAB; AD \cong BC \angle ACD \cong \angle CAB; AD \cong BC \angle ACD \cong \angle CAB; AD \cong BC v. d. \angle ACD \cong \angle CAB; AD \cong AC \angle ACD \cong \angle CAB; AB \cong CD _____ 19. Based on the information given, what can you conclude and why? Given: \angle H \cong \angle L, HJ \cong JL a.b. \triangle HIJ \cong \triangle JLK by SAS \triangle HIJ \cong \triangle LKJ by SAS \triangle HIJ \cong \triangle LKJ by SAS \triangle HIJ \cong \cong \triangle HIJ \cong \triangle LKJ by SAS \triangle HIJ \cong \triangle LKJ by SAS \triangle HIJ \cong \triangle LKJ by SAS \triangle HIJ \cong \triangle HI Name the theorem or postulate that allows you to immediately conclude $\triangle ABD \cong \triangle CBD$. a. $\triangle AS$ b. $\triangle SAS$ v. $\triangle AS$ d. none of these _____ 21. If $\triangle A \cong \triangle D$ and $\triangle C \cong \triangle F$, what additional statement does NOT allow you to conclude that $\triangle ABC \cong \triangle DEF$? a.b. $\triangle BC \cong \triangle F$ and $\triangle C \cong \triangle F$ and $\triangle C$ Declaration 1. $\angle N \cong \angle Q$ and reasons 1. Given NOT $\cong QO$ 2. $\angle MON \cong \angle POQ$ 2. Vertical angles are congruent. 3. $\triangle MON \cong \triangle POQ$ 3. ? 4. $MO \cong PO$ 4. ? a.b. ASA; CPCTC ASA; Substitution c. d. AAS; CPCTC SAS; CPCTC $\underline{\hspace{1cm}}$ 23. R, S, and T are the vertices of a triangle. E, F, and D are the vertices of another triangle. $m\angle R$ to 70, $m\angle S$ at 80, $m\angle F$ to 70, m∠D to 30, RS to 4 and EF to 4. Are the two triangles congruent? If yes, explain and say which segment is consistent with RT. a. yes, by ASA; ED b. Yes, by ASA; Provide the missing reasons for the test shown below. Given: $AB \cong AC$, $\angle BAD \cong \angle CAD$ Prove: AD bisects BC Statements Reasons 1. AB \cong AC 1. Given 2. \angle BAD \cong \angle CAD 2. Given 3. AD \cong AD 3. Reflective Property 4. \triangle BAD \cong \triangle CAD 4. ? 5. BD \cong CD 5. ? 6. AD bisects BC 6. Def. bisector segment a.b. SAS; Reflective property SAS; CPCTC v. d. SSS; ASA Reflective Property; CPCTC c. d. x a 90, y at 20 x to 90, and at 70 _____ 25. Find the values of x and y. a.b. x to 70, y at 20 x a 20, and a 70 9 Name: _____ The octagon in the figure is equiangular and AB \cong AC. Find m \angle ACB. a. 135 a. 45 c. 30 a.d. 90 ____ 27. In an A-frame house, the two congruent sides extend from the ground to form a 440 angle at the beak. What angle does each side form with the ground? a. 146 a. 68 c. 73 a.d. 136 28. What is the measure of a Angle of an isosceles triangle if the vertex angle measures 440 and the two congruent sides measure 21 units each? a. 730 a. 1460 c. 1360 d. 680 ____ 29. What is the vertex angle measurement of an isosceles triangle if one of its base angles measures 520? a. 640 a. 1280 c. 1040 d. 760 ____ 30. Use the information in the figure. Find m\(^{2}D. a. 780 b. 510 c. 10 1290 d. 390 Name: _____ Find the value of x. The diagram is not for scaling. Given: RS \(^{2} ST, m\(^{2}RST at 5x to 54, m\(^{2}STU at 20 a.m. 18 p. _____ 33. Two sides of an equilateral triangle have Is there enough information to conclude that the two triangles are congruent? If so, what is a statement of correct consistency? a.b.c.d. Yes; $\triangle ABC \cong \triangle ACD$. Yes; $\triangle ABC \cong \triangle ACD$. Yes; $\triangle ABC \cong \triangle ACD$. Yes; $\triangle ACB \cong \triangle ACD$. Yes; $\triangle ACD$. Yes; $\triangle ACB \cong \triangle ACD$. Yes; $\triangle ACB \cong \triangle ACD$. Yes; $\triangle ACD$. Yes; of \angle ABC and CD is the bisector of \angle ACB. In addition, \angle XBA \cong \angle YCA. Which AAS, SSS, SAS, or ASA would you use to help you test BL \cong CM? a. AAS b. SAS v. ASA d. SSS _____ 39. Which overlapping triangles are congruent by AAS? a.b. \triangle ABE \cong \triangle CDA \triangle ABE \cong \triangle DEA v. \triangle ADC \cong \triangle DEA \triangle ADC \cong \triangle BC _____ 40. The sides of an isosceles triangle have lengths 2x + 4, x + 16. The base has length 5x + 1. What is the length of the base? a. 4c. 21b. 12d. Brief response 41c cannot be determined. $\Delta PQR \cong \Delta TSR$. List the six pairs of congruent corresponding parts. 13 Name: _______ For the following two quadrilaterals, $\angle B \cong \angle G$, $\angle BCD \cong \angle GCD$, $\angle CDE \cong \angle CDF$ and $\angle E \cong \angle F$. Complete this congruence statement for the two quadrilaterals. EDCB \cong ___?___ 43. Enter the missing reasons to complete the test. Given 3. Given 4. Definition of congruent segments 5. ? 6. Segment 7 addition postulate. Definition of congruent segments 8. ? 44. On the basis of the information given, can you conclude that $\triangle QRS \cong TU$, and $\angle R \cong \angle U$ 45. Sketch $\triangle PQR$ and $\triangle STU$ so that $PQ \cong ST$, $PR \cong SU$ and $\angle R \cong \angle U$, but $\triangle PQR$ is NOT consistent with $\triangle STU$. 14 Explain how you can use SSS, SAS, ASA, or AAS with cpcTC to prove that ∠D ≅ ∠B. 47. Explain how you can use SSS, SAS, ASA, or AAS with CPCTC to complete a test. Given: ON ≅ OP, ∠NOM ≅ ∠POM Prove: NM ≅ PM 15 Name: _____ Fill in the missing reasons to complete the test. Given: $\angle VUY \cong$ ∠UWT ≅ ∠X Prove: UW ≅ UT Declaration 1. ∠VUY ≅ ∠X 2. UY-TX 3. ∠T ≅ ∠VUY 4. ∠VUY ≅ ∠UWT 5. ∠T ≅ ∠UWT 6. UT ≅ UW 49. Complete the BF statement ≅ Reason 1. Given 2. Discuss the Postulate of The Corresponding Angles 3. ? 4. Given 5. Transitive Property 6. ? ? . Explain why it's true. 16 Name: ____ by HL? If so, name the legs that allow the use of HL. 51. Enter the missing reasons to complete the flow test. Given: ∠ADB and ∠CDB are right angles, ∠A ≅ ∠C Demonstrate: ΔADB - ΔCDB 17 Name: _____ ID: A 52. Separate and redraw ΔABC and ΔCDA. Identify common angles or sides. 53. Determine which triangles in the figure are congruent by AAS. 54. Name a pair of triangles in the figure and state if they are congruent by SSS, SAS, ASA, AAS, or HL. Given: NP ≅ OM, MN ≅ PO 18 Name: ______ ID: A 55. Enter a two-column test to show that $\triangle CEF \cong \triangle AEF$. Given: BC $\cong DA$, $\angle 1 \cong \angle 2$ and CF $\cong AF$ 56. Is there enough information to prove that the two triangles are congruent? If yes, type the statement congruence and name the postulate you would use. If not, type is not possible and tell him what other information he would need. 57. In the figure, $\angle 1 \cong \angle 2$, $\angle 3 \cong \angle 4$ and TK $\cong \Delta 1$. Demonstrates that $\Delta RTK \cong \Delta 1$. Demonstrates that $\Delta RTK \cong \Delta 1$ and $\Delta 1$ and $\Delta 2$ and $\Delta 3$ are $\Delta 1$ and $\Delta 2$ and $\Delta 3$ are $\Delta 3$ and $\Delta 4$ and $\Delta 5$ are $\Delta 4$ and $\Delta 5$ are $\Delta 4$ and $\Delta 5$ are $\Delta 5$ are $\Delta 5$ and $\Delta 5$ are $\Delta 5$ are $\Delta 5$ and $\Delta 5$ are $\Delta 5$ are Can you conclude that triangles are congruent? Justify your answer. 60. Complete the test by providing the missing reasons. Given: $SR \perp RT$, $TU \perp US$, $SR \cong TU$ Prove: $\Delta TRS \cong \Delta Re$ Declaration 1. $SR \cong TU$, $SR \perp RT$ and $TU \perp US$, 2. $\angle SRT$ and $\angle TUS$ are right angles 3. $\angle ST \cong \angle TUS$ test $\triangle RST \cong \triangle UVW$ by the ASA. 19 Name: 4. ST \cong ST 5. \triangle TRS \cong \triangle SUT Reason 1. Given 2. Definition of perpendicular segments 3. ? 4. ? 5. ? 20 Name: ID: A Rehearsal 61. Write a test. Determined: NO \cong MR Prove: \triangle ORQ \cong \triangle MRQ 62. To write paragraph test to demonstrate that \triangle ABC \cong \triangle DEC . Given: AC \cong DC and BC \cong CE 63. Enter a twocolumn test. Given: BC ≅ EC and AC ≅ DC Prove: BA ≅ ED 21 Name: Write a two-column test: Given: \angle BAC \cong \angle DAC, \angle DCA \cong \angle BCA Provides: BC \cong CD Other 65. Wires of equal length anchor a vertical pole to the flat ground. The type cables are attached to the pole at the same height. Explain why the type's cables reach the ground at the same distance from the base of post 66. When you open a ladder, you use an orthopedic device on either side of the ladder to lock your legs in place. Explain why the triangles formed on each side by the legs and soil (\Delta ABC and \Delta DEF in the diagram) are congruent. 22 Name: consistent by AAS? If yes, write the congruence statement and explain. If not, type is not possible and tell him what other information he would need. It has: ∠B ≅ ∠D 68. It is clear from the name of the HL Theorem that you really need to know that only two parts of two triangles are congruent to test two congruent triangles. Is this the case? 69. Since ∠EAC ≅ ∠CE, what else do you need to prove that BA ≅ DC? Sketch a test that uses the necessary information. 23 ID: A Geometry Ch 4 Worksheet Answer Section MULTIPLE CHOICE 1. ANS: TOP: 4. ANS: TOP: 4. ANS: TOP: 4. ANS: TOP: 6. ANS: TOP: 6. ANS: TOP: 7. ANS: TOP: 8. ANS: TOP: 8. ANS: TOP: 8. ANS: TOP: 11. ANS: TOP: 12. ANS: TOP: 13. ANS: TOP: 13. ANS: TOP: 14. ANS: TOP: 14. ANS: TOP: 15. ANS: TOP: 15. ANS: TOP: 16. ANS: TOP: 17. ANS: TOP: 17. ANS: TOP: 18. ANS: TOP ANS: TOP: 14. ANS: TOP: 15. ANS: TOP: 15. ANS: TOP: 16. ANS: TOP: 17. ANS: TOP: 18. AN 4-1 Example 1 KEY: C PTS: 1 REF: 4-2 Example 2 KEY: C PTS: 1 REF: 4-2 Example 2 KEY: C PTS: 1 REF: 4-2 Example 2 KEY: D PTS: 1 REF: 4-3 Example 2 KEY: D PTS: 1 REF: 4-3 Example 2 KEY: D PTS: 1 REF: 4-3 Example 3 KEY: D PTS: 1 REF: Example 3 KEY: B PTS: 1 REF: 4-3 Consistent figures consistent figures corresponding parts ? Word problem 4-1 Consistent figures corresponding parts 4-1 Figures corresponding parts 4-1 Congruent figures corresponding parts 4-1 Cong Test 4-2 Triangle Congruence of SSS and SAS Reasoning 4-2 Congruence Triangle by SSS and SAS Reasoning 4-2 Triangle consistency by ASA and ASA AAS Test 4-3 Congruence Triangle by ASA and ASA AAS Reasoning 4-3 Congruence Triangle consistency by ASA and ASA AAS Test 4-3 Congruence Triangle by ASA and ASA AAS Reasoning 4-3 Congruence Triangle by ASA and ASA Reasoning 4-3 Triangle of Consistency by ASA and ASA SAS AS? Reasoning 4-3 Consistency Triangle by ASA and ASA Reasoning 4-3 Consistency DrTS: 1 REF: 4-3 Triangle Congruence by ASA and ASA KEY: ASA AAS 22. ANS: A PTS: 1 REF: 4-4 Using Congruent Triangles: CPCTC TOP: 4-4 Example 1 KEY: ASA CPCTC ? test 23. ANS: B PTS: 1 REF: 4-4 Using Congruent Triangles: CPCTC TOP: 4-4 Example 1 KEY: Bisector segment of isosceles triangle segments test 25. ANS: B PTS: 1 REF: 4-5 Isosceles and Top Equilateral Triangles: 4-5 Example 1 KEY: Bisector segment of isosceles triangle segments test 25. ANS: B PTS: 1 REF: 4-5 Isosceles and Top Equilateral Triangles: 4-5 Example 2 KEY: Bisector Angle ? isosceles triangle 26. ANS: B PTS: 1 REF: 4-5 Isosceles and Top Equilateral Triangles: 4-5 Example 3 KEY: Isosceles and Top Equilateral Triangles: 4-5 Isosceles Triangl 4-5 Example 2 KEY: Isosceles Triangle Isosceles Triangle Theorem Triangle Angle-Sum Theorem Word Problem? troubleshooting 28. ANS: D PTS: 1 REF: 4-5 Top Isosceles Triangle Reverse of the Isosceles Triangle Theorem Angle-Sum Theorem triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles and Equilateral Triangle Reverse of the Isosceles Triangle Theorem Angle-Sum Theorem triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles and Equilateral Triangle Reverse of the Isosceles Triangle Theorem Angle-Sum Theorem triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles and Equilateral Triangle Reverse of the Isosceles Triangle Theorem Angle-Sum Theorem Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles and Equilateral Triangle Reverse of the Isosceles Triangle Theorem Angle-Sum Theorem Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles And Isosceles Triangle Reverse of the Isosceles Triangle Theorem Angle-Sum Theorem Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles And Isosceles Triangle Reverse of the Isosceles Triangle Theorem Angle-Sum Theorem Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles And Isosceles Triangle Reverse of the Isosceles Triangle Theorem Angle-Sum Theorem Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles And Isosceles Triangle Reverse Of the Isosceles Triangle Theorem Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles And Isosceles Triangle Angle-Sum Theorem Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles And Isosceles Triangle Angle-Sum Theorem Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles And Isosceles Triangle 29. ANS: D PTS: 1 REF: 4-5 Isosceles And Isos Top Equilateral Triangles: 4-5 Example 2 KEY: Isosceles Triangle Theorem 31. ANS: D PTS: 1 REF: 4-5 Isosceles Triangle Sceles Triangle Theorem 31. ANS: D PTS: 1 REF: 4-5 Isosceles Triangle Triangles: 4-5 Example 2 KEY: Isosceles Triangle Theorem 31. ANS: D PTS: 1 REF: 4-5 Isosceles Triangle Theorem 31. ANS: D PTS: 1 Isosceles Triangle Theorem Isosceles Triangle 32. ANS: B PTS: 1 REF: 4-5 Isosceles and Upper Equilateral Triangles: 4-5 Example 2 KEY: Isosceles Triangle 32. ANS: B PTS: 1 REF: 4-5 Isosceles Triangle 32. ANS: B PTS: 1 REF: 4-5 Isosceles Triangle 33. ANS: D PTS: 1 REF: 4-5 Isosceles Triangle 34. ANS: D PTS: 1 REF: 4-5 Isosceles Triangle 35. ANS: B PTS: 1 REF: 4-5 Isosceles Triangle 36. ANS: D PTS: 1 REF: 4-5 Isosceles Triangle 37. AN C PTS: 1 REF: 4-6 Congruence in Straight Triangles TOP: 4-6 Example 1 KEY: Theorem hl straight triangle? reasoning 36. ANS: C PTS: 1 REF: 4-6 Congruence in Straight Triangles TOP: 4-6 Example 1 KEY: Theorem hl straight triangle? reasoning 36. ANS: C PTS: 1 REF: 4-6 Congruence in Straight Triangles TOP: 4-6 Example 1 KEY: Theorem hl straight triangle? reasoning 37. ANS: C PTS: 1 REF: 4-6 Congruence in Top Straight Triangles: 4-6 Example Example Example 2 KEY: right triangles: 4-7 Example 2 KEY: corresponding 9. REF: 4-7 Using the Corresponding Parts of Top Congruent Triangles: 4-7 Example 2 KEY: corresponding 9. REF: 4-7 Using the Corresponding Parts of Top Congruence in Top Straight Triangles: 4-7 Example 2 KEY: corresponding 9. REF: 4-8 Using the Corresponding Parts of Top Congruence in Top Straight Triangles: 4-7 Example 2 KEY: corresponding 9. REF: 4-8 Using the Corresponding 9. REF: 4-8 Using the Corresponding 9. REF: 4-8 Using the Corresponding 9. REF: 4-9 Using 9. REF: 4-9 U parts ASA congruent figures ? Sas? AAS SSS Reasoning 2 ID: A 39. ANS: TOP: KEY: 40. ANS: KEY: D PTS: 1 REF: 4-7 Using the corresponding parts ? overlapping triangles? PTS C Test: 1 REF: 4-5 Isosceles and Triangles Equilateral Triangles Triangle? Isosceles Triangle theorem word problem ? SHORT ANSWER 41 troubleshooting. ANS: Sides: PQ

TS, QR

SR, RP

RT Angles: ∠P

LT, ∠Q

LT, ANS: Step 4: Equality Addition Property Step 7: SAS TOP: 4-1 Example 1 PTS: 1 REF: 4-2 Triangle Congruence by SSS and SAS KEY: SAS Test 44. ANS: Answers may vary. Sample: Two pairs of sides are congruent, but the angle is not included. There is no SSA congruence theorem, so you cannot conclude ΔQRS ≅ ΔTUV with the given information. PTS: 1 REF: 4-2 Congruence Triangle by SSS and SAS KEY: reasoning ? SAS 45. ANS: Sketches may vary. Example: PTS: 1 REF: 4-2 Triangle Congruence SSS and SAS KEY: congruent numbers word problem ? Troubleshooting 3 ID: A 46. ANS: Answers may vary. Example: Since the two triangles share the AC side, SAS congruents them. Below, \(\D \) ≅ ∠B by CPCTC. PTS: 1 REF: 4-4 Using Congruent Triangles: CPCTC TOP: 4-4 Example 2 KEY: CPCTC ? Sas? writing in math? reasoning 47. ANS: Answers may vary. Example: Since the two triangles share the side RP, SAS congruents them. QP then ≅ SP by CPCTC. PTS: 1 REF: 4-4 Using Congruent Triangles: CPCTC TOP: 4-4 Example 2 KEY: SAS - CPCTC ? writing in math? reasoning 48. ANS: Step 3: Corresponding Angles Postulate Step 6: Converse by Isosceles Triangle Teorema PTS: 1 REF: 4-5 Isosceles Triangle Teorema PTS: 1 REF: 4-5 Isosceles Triangles: 4-5 I Angles (In defenseless) isosceles triangle test 49. ANS: Answers may vary. Example: EF; ΔBDF ≅ ΔEDF by SAS, so BF ≅ EF by CPCTC. PTS: 1 REF: 4-6 Congruence in Straight Triangles TOP: 4-6 Example 1 KEY: Theorem hl straight triangle 51. ANS: a. Definition straight triangles b. Conversation by Isosceles Triangle Theorem c. Reflective property d. Hypotenuse-PtS Leg Theorem (HL Teorerem) Right Triangle Theorem Conversation ? Test 4 ID: A 52. ANS: AC is only common side. PTS: 1 REF: 4-7 Using the Corresponding Parts of Top Congruent Triangles: 4-7 Example 1 KEY: Overlapping Triangles congruent triangles congruent triangles congruent triangles congruent triangles: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ ΔΡΟΜ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles: 0.8 ANS: ΔΜΝΡ by SSS PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles 4-7 Example 2 KEY: triangles overlapping congruent figures SSS 55. ANS: Reason for statement 1. BC ≅ DA 1. Given 2. ∠1 ≅ ∠2 2. Given 3. ∠CEB ≅ ΔAED 4. AAS 5. CE ≅ AE 5. CPCTC 6. CF ≅ AF 6. Given 7. EF ≅ EF 7. Reflective Property 8. ΔCEF ≅ ΔAEF 8. SSS PTS: 1 REF: 4-3 Consistency Triangle by ASA and AAS KEY: ASA CPCTC? consistent figures test 5 IDs: A 56. ANS: Yes; ΔWXD ≅ ΔYXD SAS. PTS: 1 REF: 4-2 Congruence Triangle by SSS and SAS KEY: SAS Reasoning Test Test 57. ANS: Answers may vary. Example: ΔRTL ≅ ΔSTK by SAS, so ∠R ≅ ∠S. Congruent angle supplements are congruent, so the ∠RKT ≅ ∠SLT. ΔRTK ≅ ΔSTL by AAS. PTS: 1 REF: 4-7 Using corresponding parts of key congruent triangles: overlapping triangles of one triangle are congruent with two angles of the other triangle, so its third angles are also congruent. The congruent sides are included between two pairs of congruent angles, so the triangles are congruent by handle. PTS: 1 REF: 4-3 Consistency Triangles are congruent by ASA and AAS TOP: 4-3 Example 4 KEY: ASA Reasoning Test Test 59. ANS: Yes, vertical angles are congruent by handle. PTS: 1 REF: 4-3 Consistency Triangles are congruent by ASA. PTS: 1 REF: 4-3 Consistency Triangles are congruent by ASA. PTS: 1 REF: 4-1 Key Congruent by handle. PTS: 1 REF: 4-3 Consistency Triangles are congruent by ASA. PTS: 1 REF: 4-3 Consistency Triangl angles are congruent. Step 4: Step of Reflective Property 5. HL Top Theorem: 4-1 Example 3 PTS: 1 REF: 4-7 Using corresponding parts of top congruent triangles? Test 6 ID: UN ESSAY 61. ANS: [4] Declaration [3][2] [1] Reason 1. DO

PM 1. Given 2. \(\Lambda 1 \) \(\Lambda 2 \) Civen 3. \(\Lambda NQO \) \(\Lambda LPQM 3. \) Vertical angles are congruent. 4. ΔNQO ≅ ΔPQM 4. AAS 5. OQ ≅ MQ 5. CPCTC 6. Or ≅. 6. Given 7. QR ≅ QR 7. Reflective Property 8. ΔORQ ≅ ΔMRQ 8. SSS correct idea, one or more significant steps omitted PTS: 1 REF: 4-7 Using Corresponding Parts of Top Congruent Triangles: 4 7 Example 3 KEY: AAS CPCTC? corresponding parts? consistent test figures of the rubric-based question test? expanded response 62. ANS: [4] Answers may Sample: You are given AC ≅ DC and BC ≅ CE. The BCA and ECD vertical angles are congruent, so the ΔABC ≅ ΔDEC by SAS. [3] correct idea, some inaccurate details [2] correct idea, not well angles are congruent. 3. SAS 4. CPCTC correct idea, some inaccurate details correct idea, not well organized correct idea, one or more significant steps omitted PTS: 1 REF: 4-4 Using Congruent Triangles: CPCTC ? consistent figures SAS test test? question based on rubrics? expanded response 64. ANS: [4] Reason for statement 1. ∠BAC \cong \angle DAC and 1. It is \angle DCA \cong \angle BCA 2. Reflective Property 2. AC \cong AC 3. \triangle CBA \cong \triangle CDA 3. ASA 4. CPCTC 4. BC \cong CD [3][2][1] correct idea, one or more significant steps omitted PTS: 1 REF: 4-4 Using congruent triangles: CPCTC KEY: ASA CPCTC ? consistent figures corresponding parts? question based on rubrics? extended response? OTHER 65 test. ANS: Answers may vary. Example: Since the pole is vertical, both triangles are congruent by the HL theorem. Cables reach the ground at the same distance from the base by CPCTC. PTS: 1 REF: 4-6 Congruence in Straight Triangles TOP: 4-6 Example 1 KEY: CPCTC? HL Theorem (HL Teorerem) Straight Triangle? word problem? troubleshooting? writing in math 66. ANS: Answers may vary. Sample: Each leg on one side of the ladder has the same length as the corresponding leg on the other side. Locking brakes keep the legs separated by the same angle measurement. Triangles are congruent by SAS. PTS: 1 REF: 4-2 Congruence Triangle by SSS and SAS KEY: SAS Word Problem? troubleshooting? writing in math 8 ID: A 67. ANS: Not possible; you have a couple of congruent angles (∠B ≅ ∠D) and a couple of congruent sides (AC - AC), but you would need to know that a couple more angles are congruent, either ∠BCA ≅ ∠CAD or ∠BAC ≅ ∠CAD or ∠BAC ≅ ∠CAD, to test the congruent triangles by AAS. PTS: 1 REF: 4-3 Congruence Triangle by ASA and AAS TOP: 4-3 Example 3 KEY: Multi-Part Question ? AAS Test Test Writing in Mathematics 68. ANS: Answers may vary. Sample: No; to use the HL Theorem, you also need to know that you have two straight triangles. Right angles are a third pair of corresponding congruent parts. PTS: 1 REF: 4-6 Congruence in Key Straight Triangles: HL theorem corresponding congruent if you know ∠BAC ≅ ∠DCA (to get SAS) or ∠B ≅ LD (to get AAS). PTS: 1 REF: 4-7 Using the Corresponding Parts of Top Congruent Triangles: 4-7 Example 2 KEY: Question of various SAS parts? Handle?? Triangles? reasoning 9 9

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