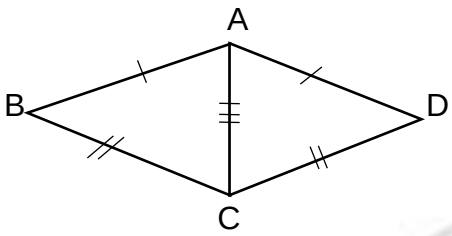
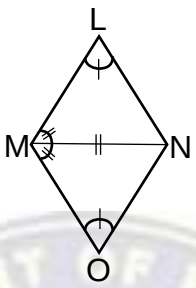
LEARNING ACTIVITY SHEET **GRADE 8 Mathematics**

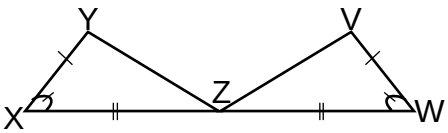
Name: _____ **Date:** _____ **Rating Score:** _____

Activity 1: Identify Me!

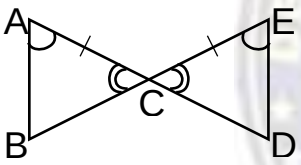
Directions: Identify if the given figures below describe Side-Angle-Side (SAS), Angle-Side-Angle (ASA), Side-Side-Side (SSS), or Angle-Angle-Side (AAS). Write your answer in the blank provided.

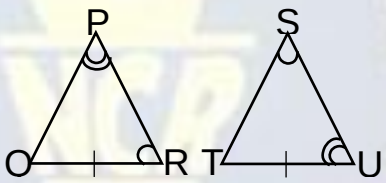






1. _____ 2. _____ 3. _____





4. _____ 5. _____

Activity 2: You Can Do It!

Directions: Read each statement below and write the correct letter on the space before each number:

___ 1. Two triangles are congruent if

A. two angles and the non-included side of one triangle are equal to the corresponding angles and side of another triangle.
B. the angle and two sides of one triangle are congruent.
C. all three sides of a triangle are equal.
D. all three angles of a triangle are equal.

___ 2. The corresponding parts of congruent triangles are congruent.

A. True B. False C. Maybe D. Never

Specific Week: Week 3 and 4
Target Competency: Illustrates triangle congruence (M8GE-IIId-1), illustrates the SAS, ASA and SSS congruence postulates (M8GE-IIId-e-1).
Note to the Teacher: This LAS was created by the writer to let the students learn more on how to illustrate triangle congruence, the SAS, ASA and SSS congruence postulates. You may refer your students to LM pages 343 to 366 to answer the LAS.

___ 3. What do you call the angle between two sides of a triangle?

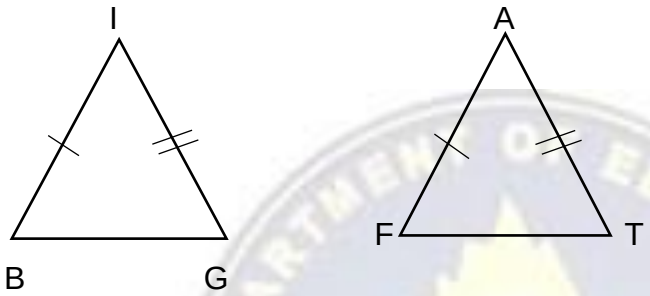
A. Included Side
B. Adjacent Angle
C. Vertical Angle
D. Included Angle

___ 4. The side common to two angles of a triangle is called?

A. Included Side
B. Opposite Side
C. Congruent Side
D. Equal Side

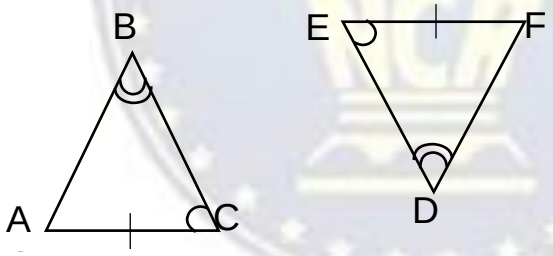
___5. Complete the congruence statement using the SAS congruence postulate.

ΔBIG ≅ Δ____



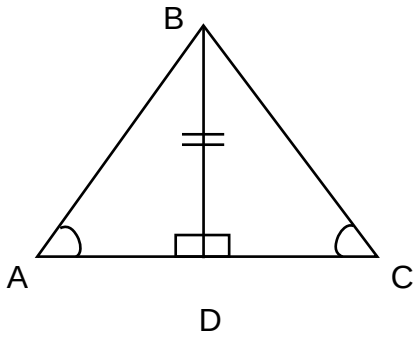
A. FAT B. TFA C. AFT D. GIB

___6. Given the figure below: Δ ABC ≅ ΔFDE by what?



A. ASA B. SSS C. SAS D. AAS

___7. Identify what postulate is shown in the given figure.



A. ASA B. SSS C. SAS D. AAS

Specific Week: Week 3 and 4
Target Competency: Illustrates triangle congruence (M8GE-IIId-1), illustrates the SAS, ASA and SSS congruence postulates (M8GE-IIId-e-1).
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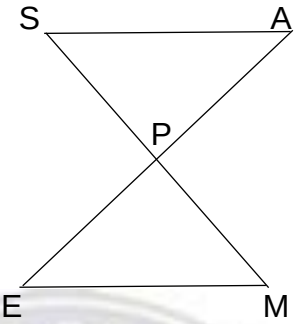
___8. In ΔPQR ,$\angle QRP$ = (2x + 30) °, $\angle PQR$ = 55 ° *and* $\angle$ *RPQ* = 65 °, what is the value of x?

A. 10^0 B. 15^0 C. 20^0 D. 25^0

___ 9. In the figure Δ SPA ≅ Δ MPE, what is the side corresponding to $\overline{SA}$?

A. $\overline{PM}$
B. $\overline{EP}$
C. $\overline{EM}$
D. $\overline{MP}$



___10. If Δ ABC ≅ Δ DEF, which segment is congruent to $\overline{AB}$?

A. $\overline{BC}$ B. $\overline{AC}$ C. $\overline{DE}$ D. $\overline{EB}$

___11. If Δ SUM ≅ Δ PRO, which angle is congruent to ∠M?

A. ∠S B. ∠P C. ∠R D. ∠O

___12. If Δ TIN ≅ Δ CAN, then ΔNAC is congruent to?

A. ΔITN B. ΔNIT C. ΔTNI D. ΔINT

___13. Maria knows that AB = XY and AC = XZ. What other information must she know to prove ΔABC ≅ ΔXYZ by SAS postulate?

A. ∠B ≅ ∠Y B. ∠C ≅ ∠Z C. ∠A ≅ ∠X D. ∠C ≅ ∠X

___14. Miguel knows that in ΔMIG and ΔJAN, MI = JA, IG = AN, and MG = JN. Which postulate or theorem can he use to prove the triangles congruent?

A. ASA B. AAS C. SAS D. SSS

___15. In ΔABC, AB = AC. If m∠B = 80, find the measure of ∠A.

A. 20 B. 80 C. 100 D. 180

___16. You are tasked to make a design of the flooring of a chapel using triangles. The available materials are square tiles. How are you going to make the design?

A. Applying triangle congruence by ASA
B. Applying triangle congruence by SAS
C. Applying triangle congruence by SSS
D. Applying triangle congruence by AAS

Specific Week: Week 3 and 4
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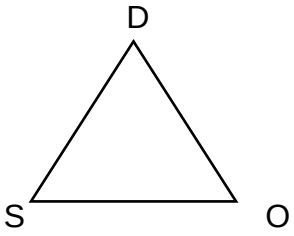
___17. What property of congruence is illustrated in the statement? If $\overline{AB} \cong \overline{DE}$ and $\overline{EF} \cong \overline{DE}$, then $\overline{AB} \cong \overline{EF}$

A. Symmetric
B. B. Transitive
C. Reflexive
D. Commutative

___18. In ΔDOS, what side is included between ∠D and ∠O?

A. $\overline{DO}$
B. $\overline{DS}$
C. $\overline{SD}$
D. $\overline{SO}$



___19. Listed below are the six pairs of corresponding parts of congruent triangles. Name the congruent triangles.

$\overline{SA} \cong \overline{JO}$	∠D ≅ ∠Y
$\overline{AD} \cong \overline{OY}$	∠A ≅ ∠O
$\overline{SD} \cong \overline{JY}$	∠S ≅ ∠J

A. ΔASD ≅ ΔJOY
B. ΔADS ≅ ΔYJO
C. ΔSAD ≅ ΔJOY
D. ΔSAD ≅ ΔJYO

___20. What are the two congruent angles in the given figure?

A. ∠S ≅ ∠T
B. B. ∠R ≅ ∠U
C. ∠S ≅ ∠R
D. ∠S ≅ ∠W

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