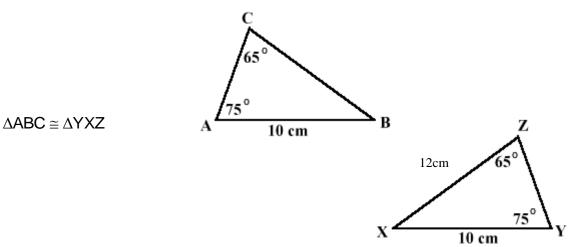
REVIEW: CONGRUENT TRIANGLES

NAME: ______ DATE: _____ PERIOD: _____

PART 1: Complete each statement.



1. ∠CBA ≅ _____

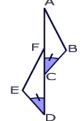
2. BC ≅ _____

3. ∠XZY ≅ _____

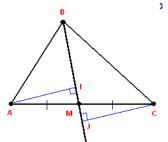
4. AB = _____

Part 2: Write a congruence statement between each pair of triangles and state the postulate applied. If you cannot apply a postulate, write *no conclusion* can be made.

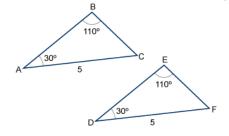
5. _____



6. _____

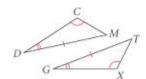


7. _____

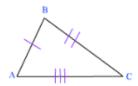


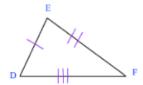
8. _____



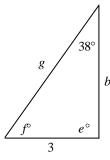


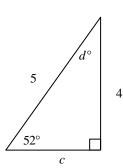
9. _____





PART 3: The two triangles are congruent as suggested by their appearance. Find the value of the variables.





10. b = _____

11.c = ____

12. d° = _____

13. e° = _____

14.f °= _____

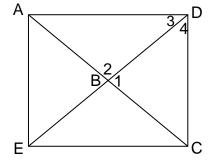
15.g = _____

PART 4: Fill in any missing statements or reasons.

16. **Given:** B is the midpoint of \overline{AC}

 $\overline{\mathsf{BD}} \perp \overline{\mathsf{AC}}$

Prove: $\angle 3 \cong \angle 4$



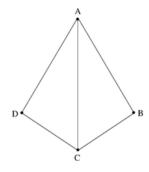
Statements	Reasons
1.	1. Given
2. $\overline{AB} \cong \overline{BC}$	2.
3. BD ⊥ AC	3.
4.	4. Definition of Perpendicular Lines
5. ∠2 ≅ ∠1	5.
6.	6. Reflexive Property
7. ΔABD ≅ Δ	7.
8.	8. CPCTC

Use the word bank below to fill in the statements and reasons for the following proof.

17. **Given:** CA bisects ∠BAD

CA bisects ∠BCD

Prove: $\triangle ABC \cong \triangle ADC$



Given	ASA		$\triangle ABC \cong \triangle ADC$
∠BCA ≅ ∠DCA		Given	$\overline{AC}\cong\overline{AC}$
Definition of Angle Bisector		Definition of A	Angle Bisector
CA bisects ∠BAD			Reflexive Property
CA bisects ∠BCD		∠BAC ≅ ∠DA	AC

Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.