## Name

$\qquad$

Is it possible to prove that the triangles are congruent? If so, state which congruence postulate or theorem you would use.
1.

2.


3.

4.

5.

6.

7.

8.

9.

10.


Use the given information to determine whether or not $\triangle A B C \cong \triangle J K L$. Explain your reasoning. (Hint: You may want to make a sketch of the triangles.)
11. $\overline{A B} \cong \overline{J K}, \overline{B C} \cong \overline{K L}, \angle B \cong \angle K$
12. $\angle C \cong \angle L, \angle A \cong \angle J, \angle B \cong \angle K$
13. $\angle A \cong \angle K, \angle C \cong \angle L, \overline{A C} \cong \overline{J L}$
14. $\overline{C A} \cong \overline{L J}, \angle B \cong \angle K, \angle C \cong \angle L$
15. $\overline{A C} \cong \overline{J L}, \overline{C B} \cong \overline{L K}, \angle A \cong \angle J$
16. $\overline{B C} \cong \overline{K J}, \overline{C A} \cong \overline{L K}, \overline{B A} \cong \overline{L J}$

State the additional information that is needed to prove $\triangle D E F \cong \triangle M N O$ using the indicated postulate or theorem. (Hint: You may want to make a sketch of the triangles.)
17. Given: $\overline{D E} \cong \overline{M N}$ $\angle D \cong \angle M$

Method: SAS Congruence Postulate
19. Given: $\overline{F E} \cong \overline{O N}$

$$
\angle F \cong \angle O
$$

Method: AAS Congruence Theorem
18. Given: $\overline{E F} \cong \overline{N O}$
$\angle F \cong \angle O$
Method: ASA Congruence Postulate

