**Geometry**  name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Proving Triangles Congruent: ASA, AAS, SAS, SSS** date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For each problem give the correct naming order of the congruent triangles. Write that name in order on the lines for the problem number (see box at bottom). Also, indicate which postulate or theorem is being used.

W

A

B

I

C

R

B

C

G

A

N

B

A

S

C

E

G

J

R

H

E

C

A

E

B

Y

C

B

S

A

D

O

M

K

N

A

H

T

A

T

H

C

B

I

A

L

K

J

T

L

H

D

F

S

E

N

H

A

A

B

C

G

A

K

A

B

Y

C

D

P

E

S

ΔABC ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔABC ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔABC ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔABC ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔGHJ ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔABC ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔDEF ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔABC ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔJKL ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔABC ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔABC ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

ΔMNO ≅ Δ \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_

1. 2. 3.

4. 5. 6.

7. 8. 9.

10. 11. 12.

\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_O\_ \_\_\_ \_\_\_ \_N\_ \_\_\_ \_\_\_ \_\_\_ \_S\_ \_\_\_ \_\_\_ \_E\_ \_\_\_ \_I\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_T\_ \_\_\_

4 4 4 8 8 8 12 12 12 2 2 2 5 5 5 9 9 9 6

\_\_\_ \_\_\_ \_\_\_ \_E\_ \_E\_ \_\_\_ \_\_\_ \_\_\_ \_O\_ \_\_\_ \_\_\_ \_N\_ \_\_\_ \_U\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_T\_ \_\_\_ \_E\_ \_\_\_ \_\_\_ \_I\_ \_\_\_ .

6 6 10 10 10 1 1 1 3 3 3 7 7 7 11 11 11

**(When you are done with the puzzle, there are: 3 SAS, 5 AAS, 2 ASA, and 2 SSS instances.)**