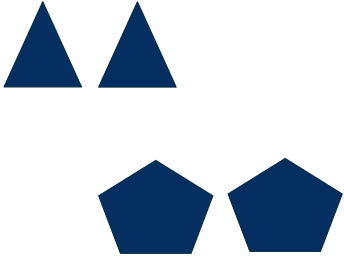


# 2.1

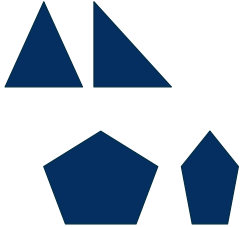
# CONGRUENT FIGURES

## Do Now

These pairs of shapes are congruent.



These pairs of shapes are NOT congruent.



In your own words, what does congruent mean?

---

---

---

---

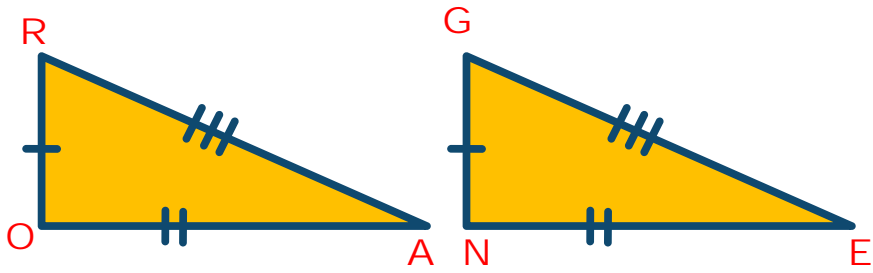
## NEW WORD!

# CONGRUENT

Tell whether the triangles are *congruent* or *not congruent*.

- 1. Two identical gray triangles.
- 2. Two gray triangles of different sizes and orientations.
- 3. Two identical gray triangles.
- 4. Two gray triangles of different sizes and orientations.
- 5. A gray rectangle divided into two congruent triangles by a diagonal.
- 6. Two gray triangles of different sizes and orientations.

What about congruent shapes?

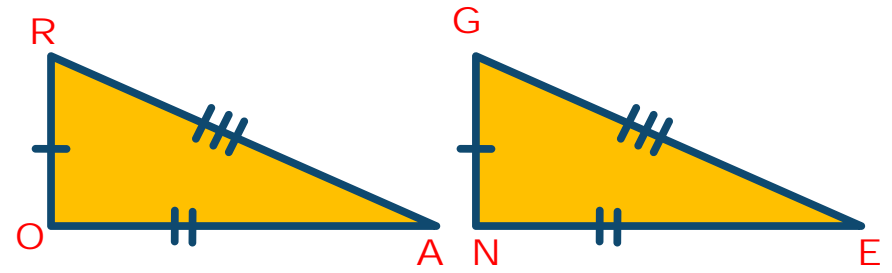


---

---

---

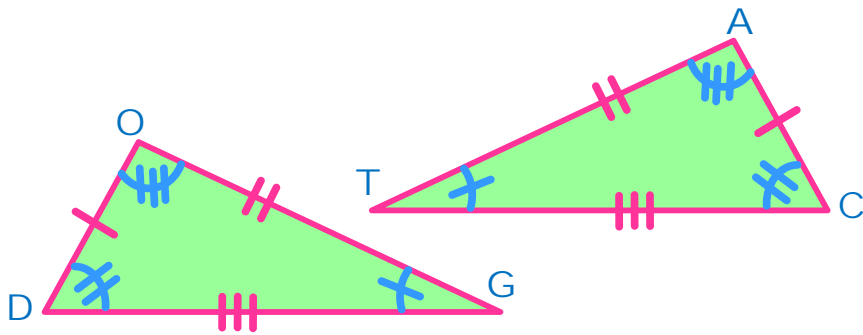
Corresponding Parts of Congruent Figures



Corresponding Angles

Corresponding Sides

Corresponding Parts of Congruent Figures



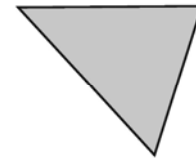
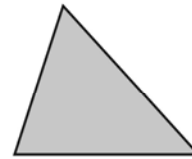
Corresponding Angles

Corresponding Sides

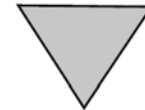
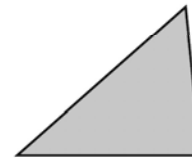
Practice

Tell whether the triangles are *congruent* or *not congruent*.

1.

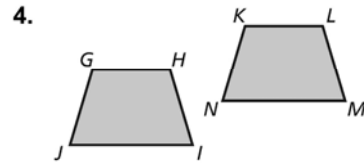
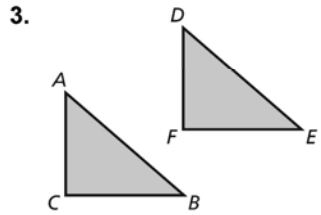


2.



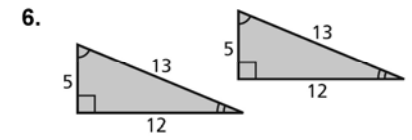
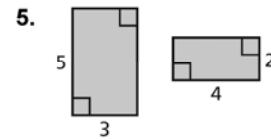
## Practice

The figures are congruent. Name the corresponding angles and the corresponding sides.



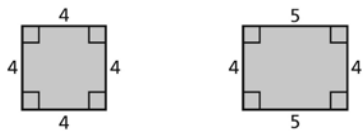
## Practice

Tell whether the two figures are congruent. Explain your reasoning.



## Practice

7. Describe and correct the error in telling whether the two figures are congruent.



✗ Both figures have four sides and corresponding angle measures are equal. So, they are congruent.