

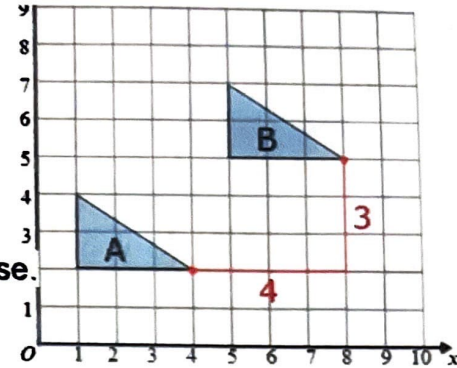
# Unit 3 Study Guide

1) What are 5 ways to prove the congruent part of the congruent triangle is congruent?

SSS   SAS   AAS   ASA   HL

2) Triangle FGH is translated 4 right and 3 up

Determine whether each statement in the table is true or false.



Statement	True	False
The measure of angle $F$ is less than the measure of angle $F'$ .	<input type="radio"/>	<input checked="" type="radio"/>
Side $FH$ is the same length as side $F'H'$ .	<input checked="" type="radio"/>	<input type="radio"/>
Angle $H$ has the same measure as angle $H'$ .	<input checked="" type="radio"/>	<input type="radio"/>

3) Which transformation results in a figure similar but not congruent to its image?

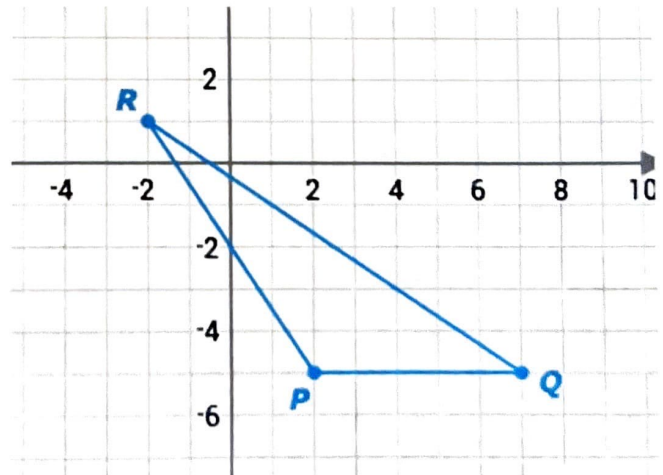
Dilation

4) Write the coordinates of the vertices after a translation 8 units left and 5 units down.

$P'(-6, -10)$

$Q'(-1, -10)$

$R'(-10, -4)$



$(x, y)$	$(x-8, y-5)$
$P(2, -5)$	$P'(-6, -10)$
$Q(7, -5)$	$Q'(-1, -10)$
$R(-2, 1)$	$R'(-10, -4)$

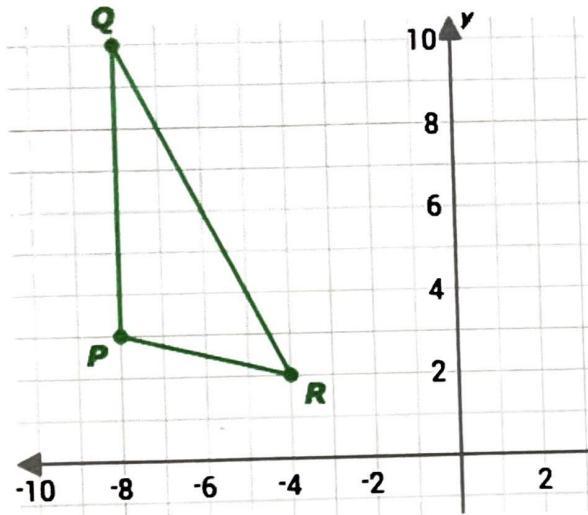
5) Write the coordinates of the vertices after a rotation 270° counterclockwise

$$P'(3, 8)$$

$$Q'(10, 8)$$

$$R'(2, 4)$$

$(x, y)$	$(y, -x)$
$P(-8, 3)$	$P'(3, 8)$
$Q(-8, 10)$	$Q'(10, 8)$
$R(-4, 2)$	$R'(2, 4)$



6) Point W is in Quadrant 2 and is reflected across the x-axis and then rotated 180° counterclockwise about the origin. In which quadrant is the image of point W?



7) Triangles GHI and NMO are congruent. Which of the following statements are true? Select True or False for each statement.

Statement	True	False
$\overline{HI} \cong \overline{MO}$	<input checked="" type="radio"/>	<input type="radio"/>
$\overline{GI} \cong \overline{NO}$	<input checked="" type="radio"/>	<input type="radio"/>
$\angle HGI \cong \angle MON$	<input type="radio"/>	<input checked="" type="radio"/>
$\angle GHI \cong \angle MNO$	<input type="radio"/>	<input checked="" type="radio"/>

8) Make sure you've reviewed 5 ways to prove the congruent part of the congruent triangle is congruent!!!!!!!!!!!!