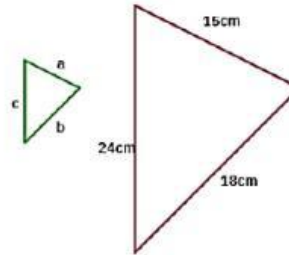| Name :	Grade

Investigate Reductions and Enlargements

Learning Objective : **Understand the image that is the result of enlarging or reducing a preimage is not congruent to the preimage.**

The green triangle is enlarged 3 times into the red triangle.
Find the lengths *a*, *b*, and *c*.

15cm
a
c
b
24cm
18cm

○ a = 6 cm b = 5 cm and c = 8 cm

○ a = 5 cm b = 6 cm and c = 8 cm

○ a = 8 cm b = 6 cm and c = 5 cm

○ a = 5 cm b = 8 cm and c = 6 cm

An equilateral triangle *ABC* of side 8 cm is reduced by half into triangle *A'B'C'*.
Select the sentence that best describes the triangle A'B'C'.

○ A'B' = 4 cm and each
angle = 30 °

○ A'B' = 16 cm and each
angle = 60 °

○ A'B' = 4 cm and each
angle = 120 °

○ A'B' = 4 cm and each
angle = 60 °

Ray uses a magnifying glass to read small printed text.
This is _____.

○ a translation

○ a rotation

○ a reflection

○ an enlargement

LIVEWORKSHEETS