

Use the following informations to answer questions 1 – 3.

Consider similarity of triangles.

1. Identify two transformations that must be present whenever two figures are similar.
2. Classify the transformations in 1 above as rigid or not rigid.
3. Give your reason from the answers in 2 above.
4. A circle has a radius of 5.2 in. Find the distance around it, in terms of π .
5. Three points A, B and C are on the circle of center O. How could you compare the distance OA, OB and OC if possible, stating your reason.

Answer Key

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1. Translation and dilation
2. Rigid transformation; Translation
Non rigid transformation; dilation
3. Rigid transformation; Size and shape are preserved
Non rigid transformation; Size and shape are not preserved
4. 10.4π
5. $OA = OB = OC$
They are all radius