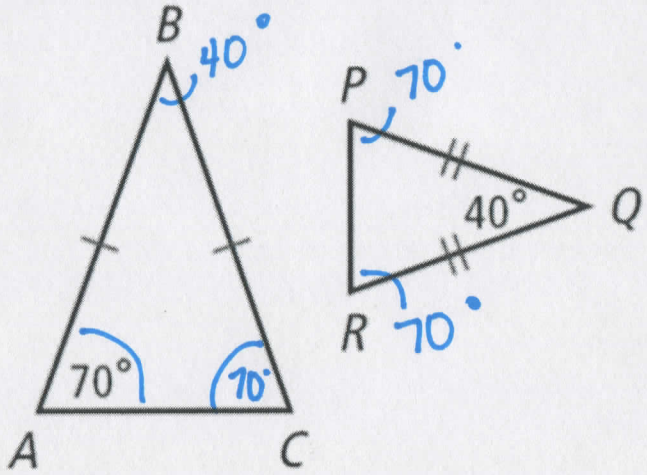
Lesson Title 8.2 & 8.3 Proving Triangles Similar by AA~, SSS~, & SAS~ DAY THREE NOTES HGEO Date _____

TASK 10: Writing Similarity Statements
Explain why the triangles are similar and write a similarity statement.

AA~ $\triangle ABC \sim \triangle PQR$



TASK 11: Finding lengths of segments using similarity.
Explain why the triangles are similar, then find BE and CD.

$\frac{3}{7.5} = \frac{x}{x+6}$

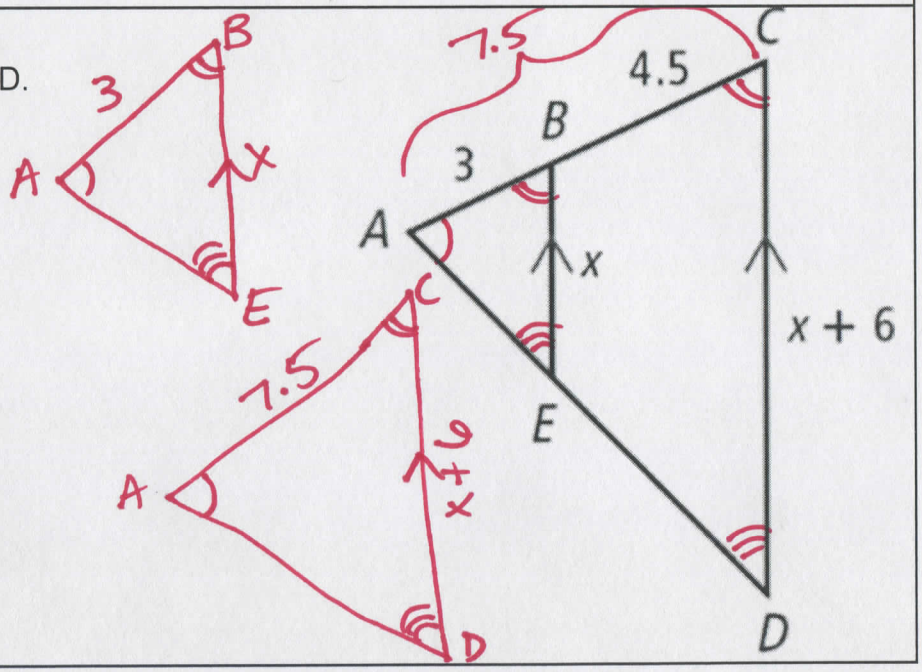
$3x + 18 = 7.5x$

$18 = 4.5x$

$4 = x$

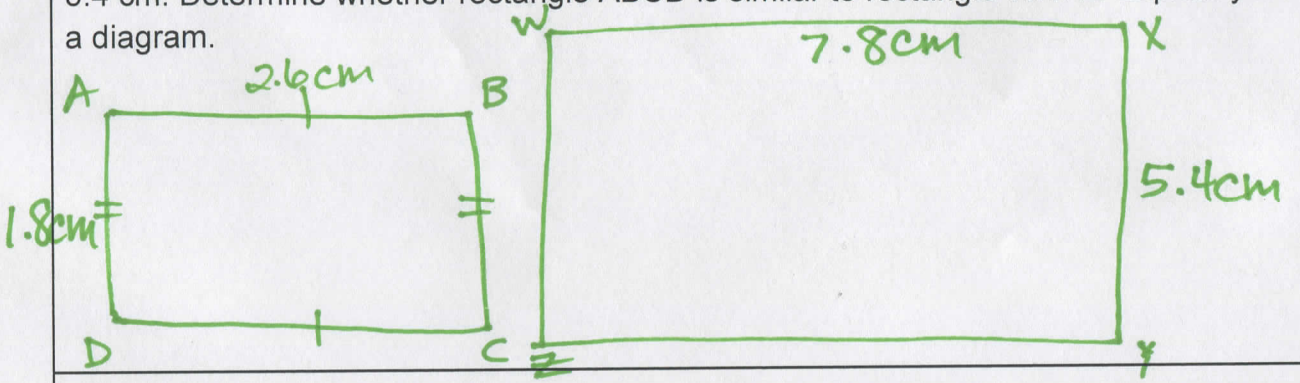
SAS~

BE = 4u
CD = 10u



TASK 12: Making sense of word problems

Rectangle ABCD has a length of 2.6 cm and a width of 1.8 cm. Rectangle WXYZ has a length of 7.8 cm and a width of 5.4 cm. Determine whether rectangle ABCD is similar to rectangle WXYZ. Explain your reasoning. HINT: Draw and label a diagram.



AA ~

$\frac{2.6}{7.8} = \frac{1.8}{5.4}$

$\frac{1}{3}$

Make notes of things you are still struggling with here. Ask for help on them.

Still need help with: