

Name _____

Date _____

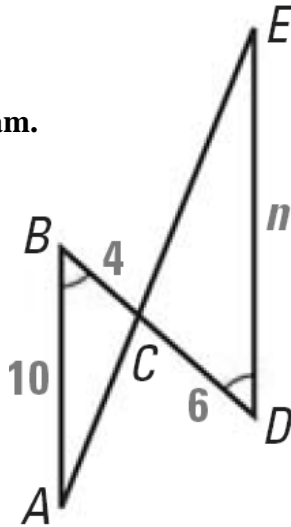
Open-ended Task: Geometry Chapter 6

Directions:

To receive full credit you must do the following:

1. Show OR describe each step of your work, even if you did it in your head (“mental math”) or used a calculator,
AND
2. Write an explanation stating the mathematical reason(s) why you chose each of your steps.

Question: Use the diagram.



A. Explain how you know that $\triangle ABC \sim \triangle EDC$.

B. Find the value of n

C. The perimeter of $\triangle ABC$ is 22. What is the perimeter of $\triangle EDC$?
Justify your answer.