Geometry

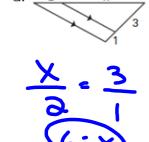
7.5 (day 2): Proportions and Similar Triangles

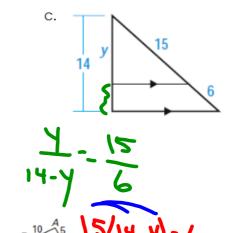
Name:_____

OStudents will be able to use the Midsegment theorem to find missing lengths of a triangle.

Warmup

Find the value of the variable.





Determine whether \overline{DE} is parallel to \overline{BC} . Explain.

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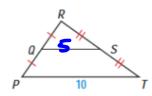
A Midsegment of a triangle is: The segment connecting
the Midpoints of 2 sides of
a triangle.

The Midsegment Theorem:	أ ا ما ا مع م
The segment connecting the midpoints of	two sides of a triangle is
to the third side and is	as long.
·	NABC IF AD = DB DE // BK
	Droc 1 ro - 11 at
	~ Ex 1hm DE// 64
	AE = FC TIME - I
× ±	
i /	and DE = & BC

Example 3:



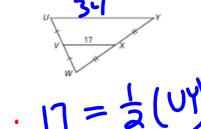
a. Find the length of \overline{QS} .



$$QS = \frac{1}{2}(10)$$

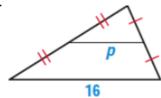
$$QS = 5$$

b. Find the length of \overline{UY}

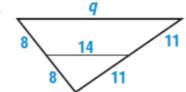


YOU TRY: Find the value of the variable.

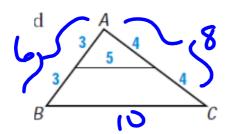
a.







c. Find the $\underline{\text{perimeter}}$ of $\Delta \text{ABC}.$



Homework: 7.5 Day 2 Worksheet