

5.1

Midsegments of Triangles

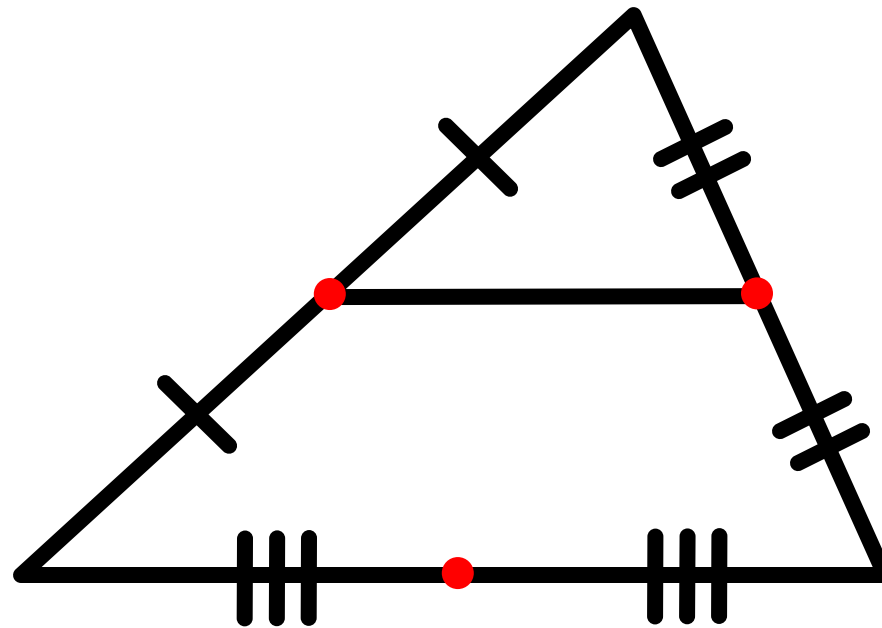
8. As Emily is riding her bicycle on a long straight road, she spots Emerson skating in the same direction $\frac{1}{2}$ mile in front of her. After she passes him, she can see him in her rear view mirror until he is $\frac{1}{2}$ mile behind her. Emily rides at a constant rate of 12 miles per hour, and Emerson skates at a constant rate of 8 miles per hour. For how many minutes can Emily see Emerson?



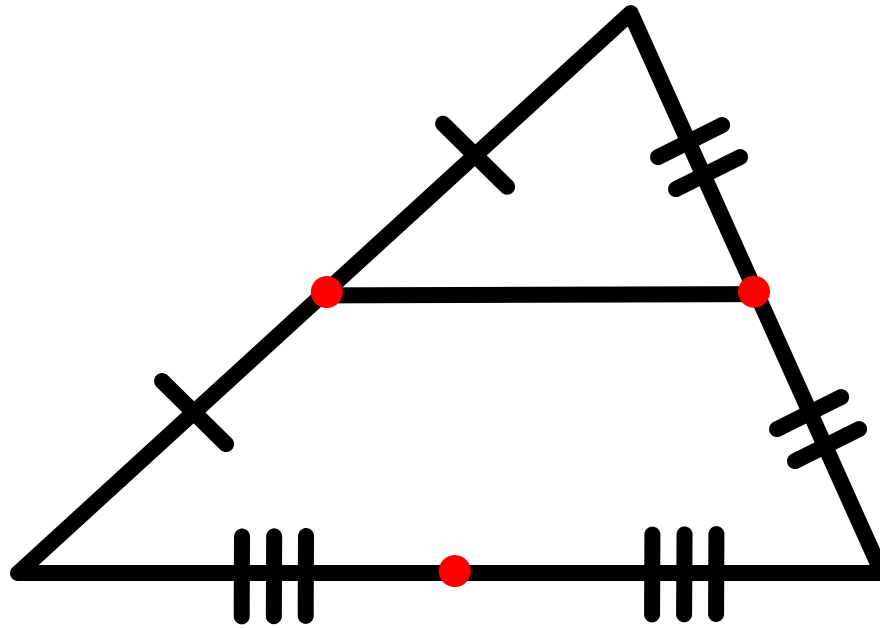
- (A) 6 (B) 8 (C) 12 (D) 15 (E) 16
9. Ryan got 80% of the problems correct on a 25-problem test, 90% on a 40-problem test, and 70% on a 10-problem test. What percent of all the problems did Ryan answer correctly?
- (A) 63 (B) 75 (C) 80 (D) 84 (E) 86

DEFINITION

MIDSEGMENT



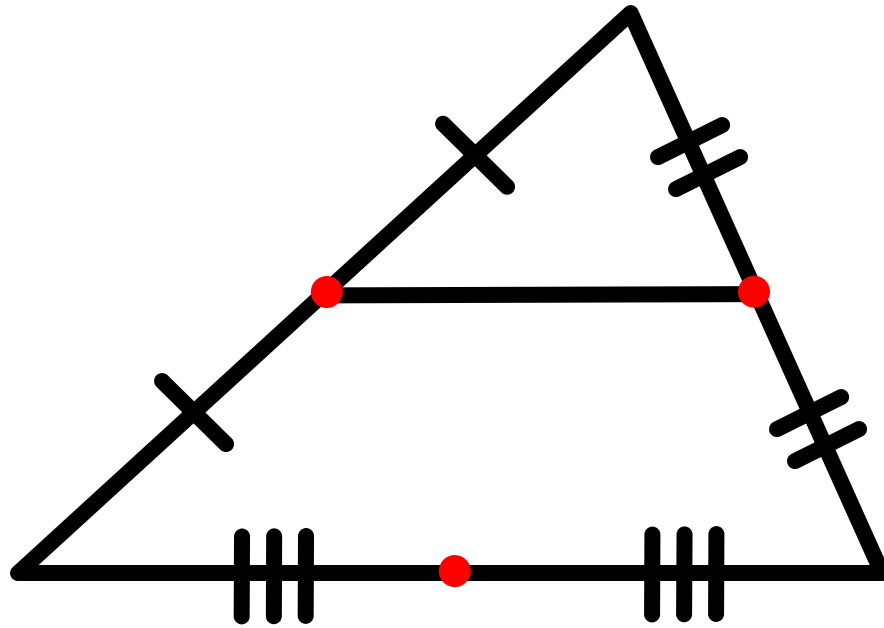
OBSERVATIONS



What are two relationships between a midsegment and the side that doesn't contain its endpoints?

1) _____

2) _____

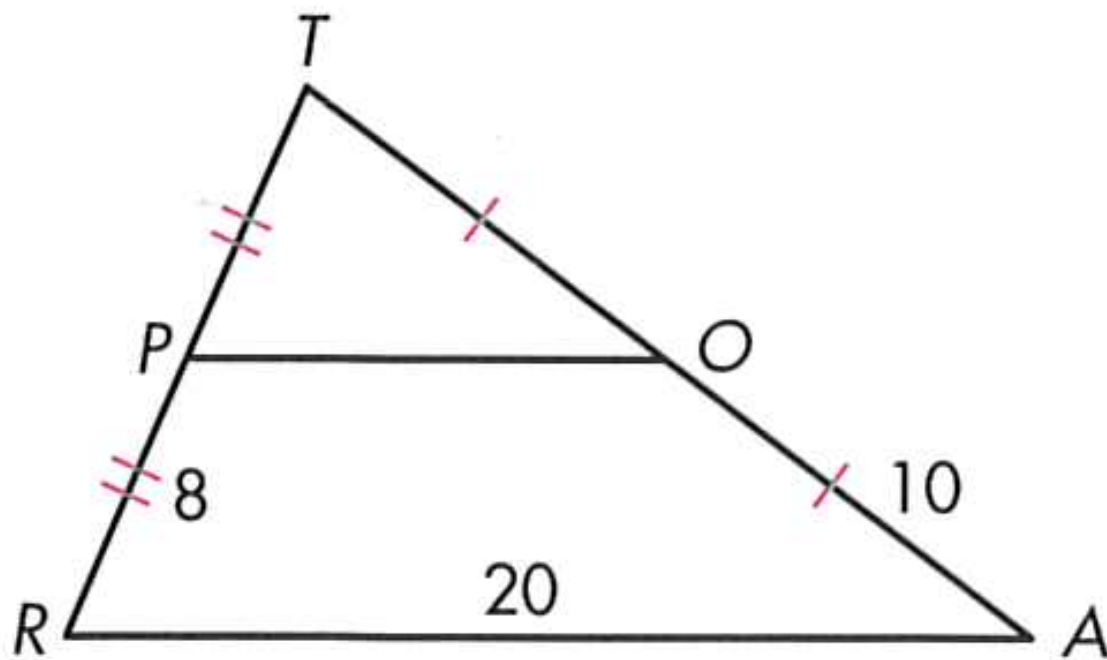


TRIANGLE MIDSEGMENT POSTULATE

The midsegment is _____ to the _____ side
and _____ the length of the _____ side.

PRACTICE

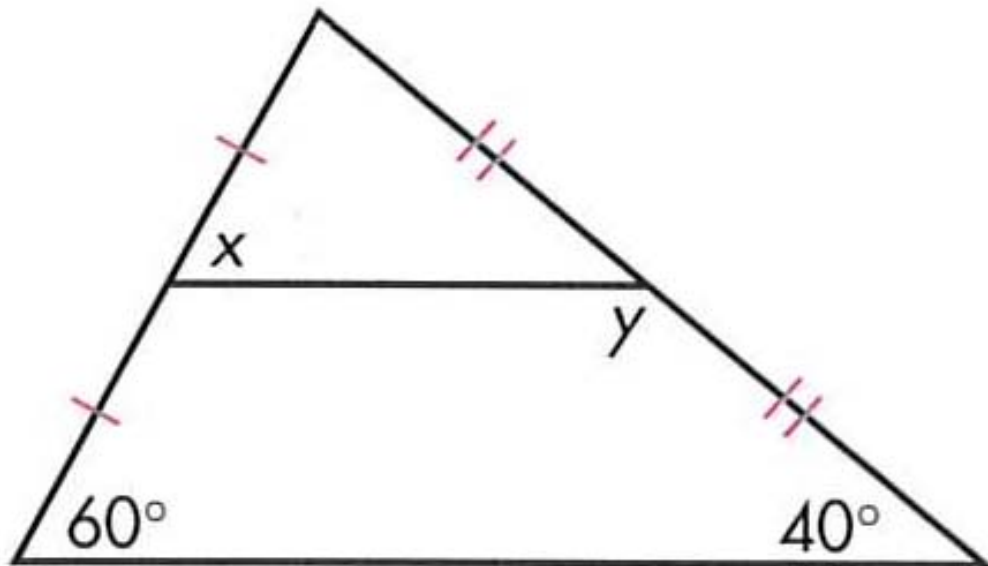
1.* What is the perimeter of $\triangle TOP$?



PRACTICE

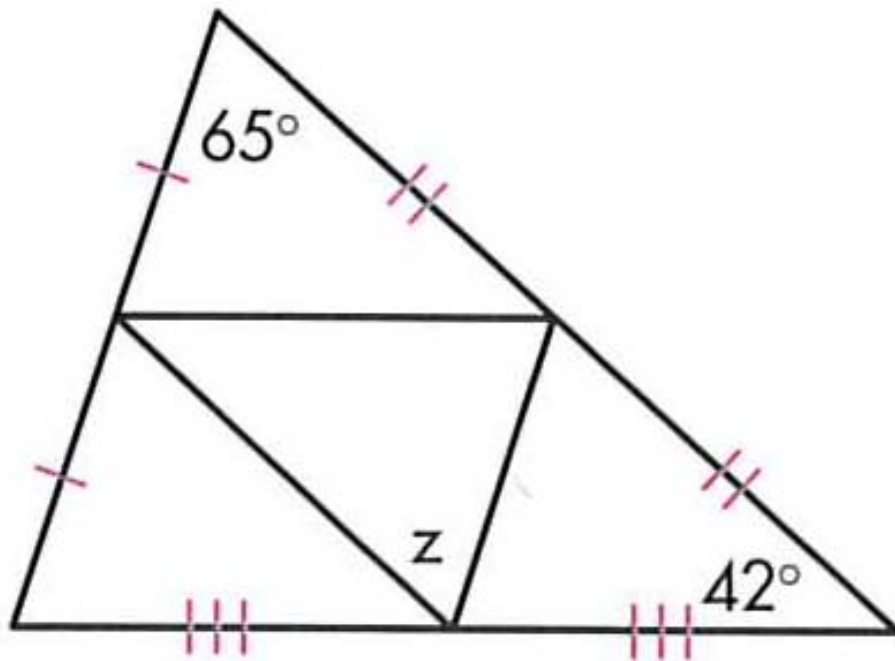
2. $x = \text{---?---}$

$y = \text{---?---}$



PRACTICE

3.* $z = \text{---?---}$



PRACTICE

4. What is the perimeter of $\triangle TEN$?

