

# October 12, 2016

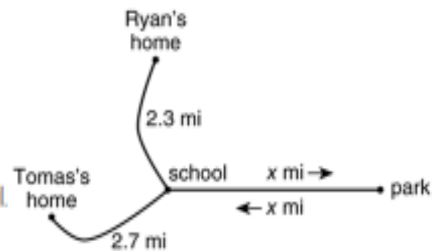
## Bellringers

Ryan and Tomas walked to school and then to the park, as described below:

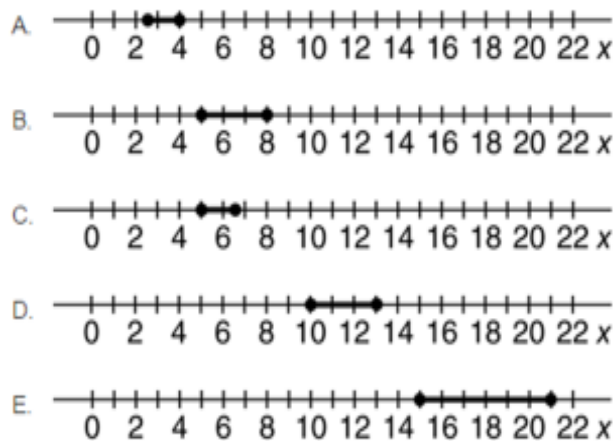
Ryan walked 2.3 miles from his home to meet Tomas at school.

Tomas walked 2.7 miles from his home to meet Ryan at school.

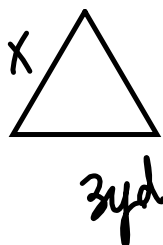
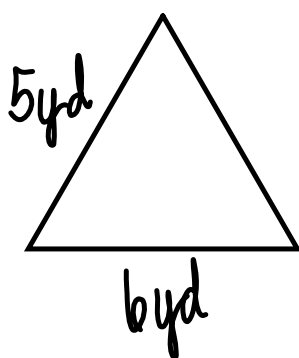
Once they were at school, the boys walked  $x$  miles to the park and then  $x$  miles back to the school.



The sum of the distance Ryan walked and the distance Tomas walked was at least 15 miles but not more than 21 miles. One of the following is the graph of the possible values of  $x$ . Which one?



## Proportions & Similar Figures



$$\frac{6}{3} = \frac{5}{x}$$

$$\frac{6x}{6} = \frac{15}{6}$$

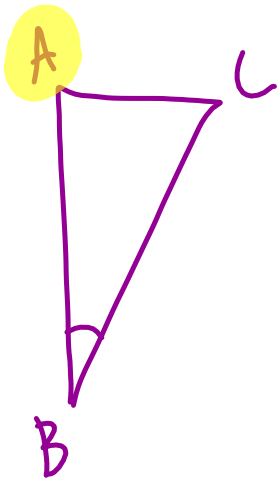
$$x = \frac{5}{2}$$

OR

$$\frac{6}{5} = \frac{3}{x}$$

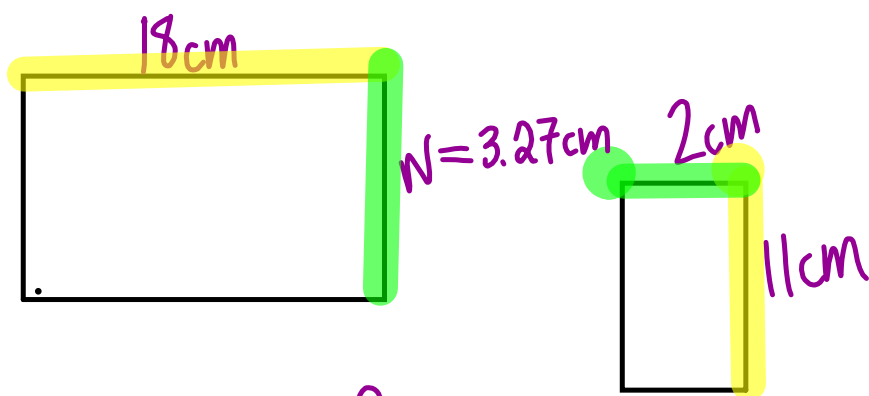
$$\frac{6x}{6} = \frac{15}{6}$$

$$x = \frac{5}{2}$$



Similarity Statement

$$\triangle ABC \sim \triangle WXY$$



What is the length of  $W$ ?

~~$$\frac{18}{11} = \frac{W}{2}$$~~

$$\frac{11W}{11} = \frac{36}{11} \quad W = 3\frac{3}{11}$$

$$W = 3\frac{3}{11}$$

page(192-193)  
#(2-28)even  
Turn in