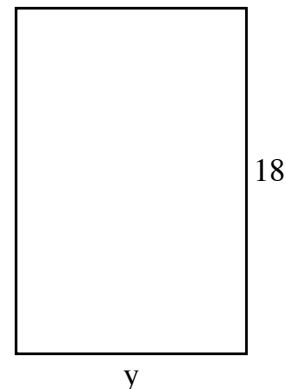
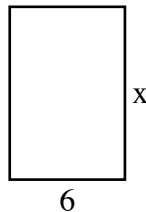


MathFLIX CHALLENGE

Numbers: Proportion & Percent: Proportions: Similar Figures

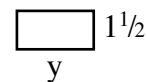
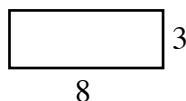
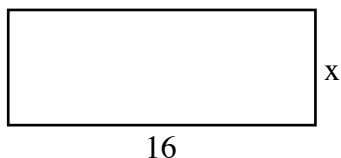
Remember from the video that if figures are similar, it means they have the same shape, but are of a different size. This means that the measure of their lengths and widths will be in proportion to each other. Take again the figure that we worked with in the video and try to determine the value of x and y in the two similar rectangles.



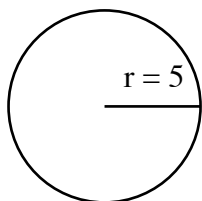
$$\begin{aligned} x/6 &= 3/2 \\ 2x &= 18 \\ x &= _ \end{aligned}$$

$$\begin{aligned} 18/y &= 3/2 \\ 3y &= _ \\ y &= _ \end{aligned}$$

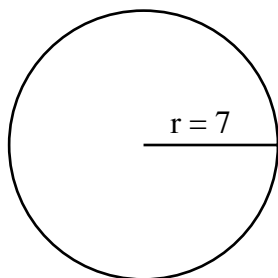
Now try to identify x and y in this set of similar figures on your own.



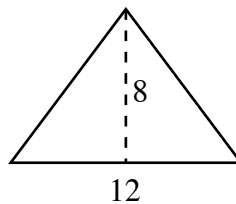
Finally use what you have learned about proportion and similar figures to identify the missing value in the figures below. Assume all figures are similar. Hint: Circles, squares and equilateral triangles are always similar.



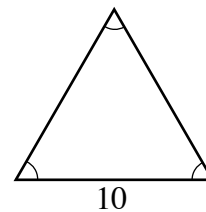
circumference = 10π



circumference = $_$



perimeter = $_$



perimeter = $_$