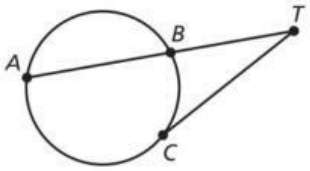
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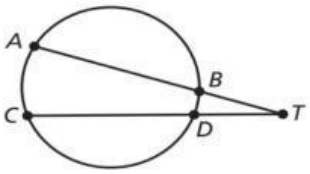
Title: Geometry: 16.1 **Segment Relationships in Circles**

Instructions: Copy the following questions to your notebook and solve them. Once done submit them on Schoology

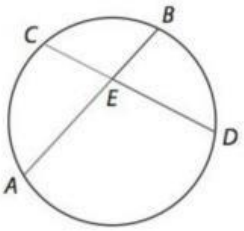
Hints:



$AT \cdot BT = CT^2$

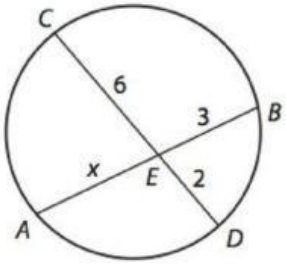


$AT \cdot BT = CT \cdot DT$

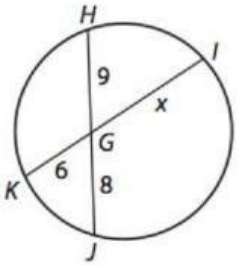


$AE \cdot EB = CE \cdot ED$

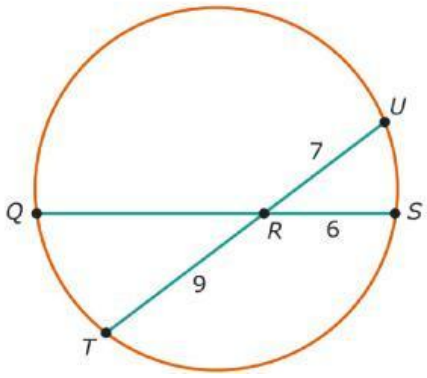
Q1) Find the value of x



Q2) Find the value of x



Q3) Find the length of $\overline{QR}$.



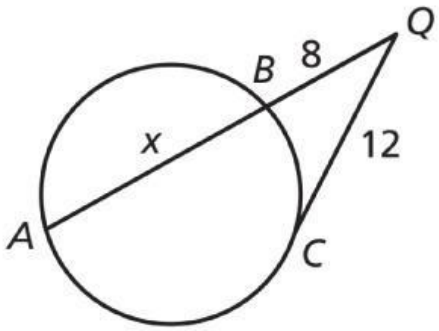
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Name: Date:

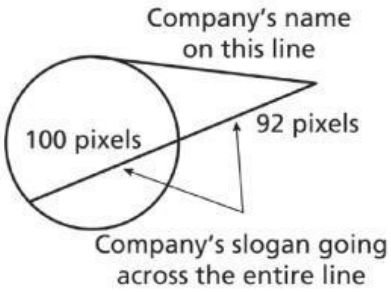
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Q4) find the lengths:

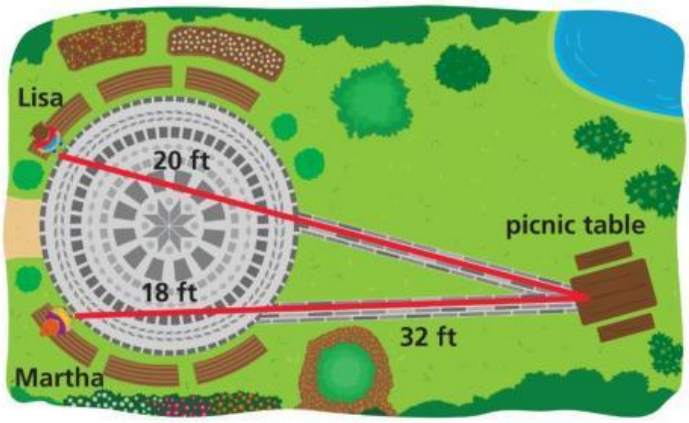
AB, *AQ*, and *CQ*



Q5) **STEM** A graphic arts designer is creating a logo for a company. The diagram shown is an outline of the logo that shows how much space the designer has for the company's slogan and name. According to the diagram, how many pixels are available for the company's name and for the company's slogan?



Q6) Lisa and Martha are in a park. The diagram shows how far each of them has to walk in order to reach a picnic table where they will eat lunch. How far is Lisa from the picnic table?



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