

Download Length Of Major Arc

For example 'arc AQB', would not be in doubt since the point Q would lie on only on one of the two possible arcs. When the major and minor arcs are the same length, they divide the circle into two semicircular arcs. See Semicircle definition. Under these circumstances neither arc is considered to be the major or minor arc. Thus, the length of the arc AB will be $\frac{5}{18}$ of the circumference of the circle, which equals $2\pi r$, according to the formula for circumference. length of arc AB = $(\frac{5}{18})(2\pi r) = (\frac{5}{18})(2\pi(18)) = 10\pi$.major arc ; In the circle on the left, there is both a major arc and a minor arc. Look at the circle and try to figure out how you would divide it into a portion that is 'major' and a portion that is 'minor'. Identify arcs. The measure of an arc = the measure of its central angle. Find the arc length of an arc formed by 60° of a circle with a radius of 8 inches. Step 1: Find the variables. $\theta = 60^\circ$ $r=8$. Step 2: Substitute into formula. Length = $\frac{60}{360} \times 2\pi(8)$ Step 3: Evaluate for Arc Length. Length = $\frac{16}{3}\pi$. Length = $8\pi \approx 25.13$. If you want an approximate answer, use 3.14. Length = $8(3.14) \approx 25.12$. Answer: The length is about 25.12 inches. Example 2:, Length Of Major Arc.

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