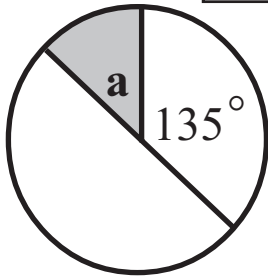


4. Angles and Fractions

Fractions can be calculated if Degrees are given.

Example: What is Angle **a** as a Fraction of the Circle?

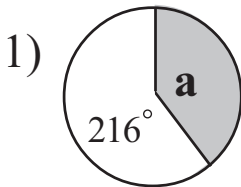


a is Complementary $180^\circ - 135^\circ = 45^\circ$

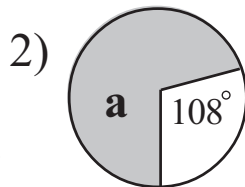
Write as a Fraction and Simplify $\frac{45}{360} \times \frac{1}{8}$

45° as a Fraction is $\frac{1}{8}$

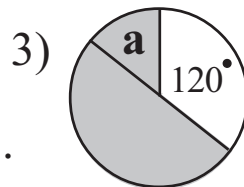
Exercise 12: 3a Write the Missing Angle as a Fraction:



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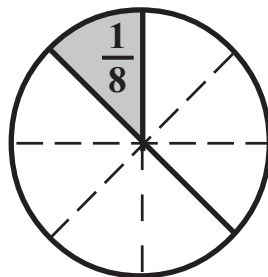
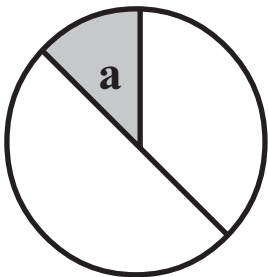


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Express as a Fraction: 4) $210^\circ = \dots\dots\dots$ 5) $24^\circ = \dots\dots\dots$

Degrees can be calculated if Fractions are given.

Example: What is Angle **a** in Degrees?

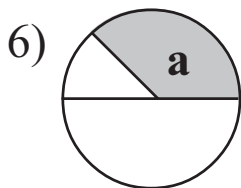


Drawing in the Missing Lines shows it is $\frac{1}{8}$

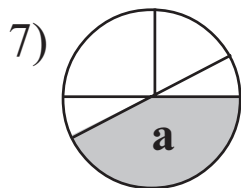
Multiply by 360 $\frac{1}{8} \times \frac{360}{1}$

$\frac{1}{8}$ in Degrees is 45°

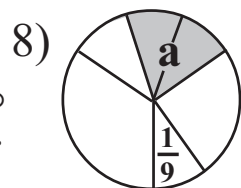
Exercise 12: 3b Write the Angle in Degrees:



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Express in Degrees: 9) $\frac{2}{3} = \dots\dots\dots^\circ$ 10) $\frac{5}{6} = \dots\dots\dots^\circ$