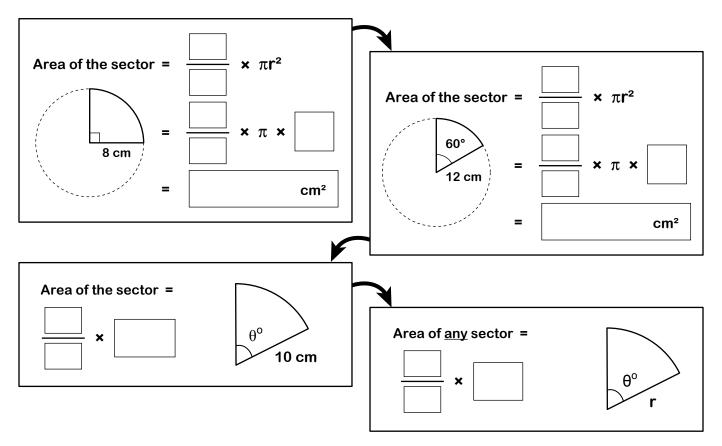
## The Formulae for Area of Sectors and Arc Lengths



Derive the formula for the area of a sector by filling in the missing blanks. Leave any answers in terms of  $\pi$ .



Derive the formula for arc length (shown in red) by filling in the missing blanks.

