Handout 1: Construction Zone

- 1. Draw a circle with center ${\cal O}$ and radius 4 cm.
- 5. Draw a line m tangent to $\odot P$ at a point X.

- 2. Construct a diameter AB of your $\odot O$.
- 6. Construct a secant of $\odot P$.

- 3. Draw a radius OC of your $\odot O$ such that $m \angle BOC = 100^{\circ}$.
- 7. Construct a $\odot Q$ such that $\odot Q$ is tangent to m and has no other tangents in common with $\odot P$.

- 4. Construct a $\odot P$. Any radius is fine.
- 8. Construct a $\odot S$. Any radius is fine.

- 9. Construct a right triangle $\triangle ABC$ inscribed in $\odot S$, meaning that points A, B, and C are on $\odot S$.
- 10. Construct segments \overline{AD} and \overline{CD} such that ABCD is a rectangle inscribed in $\odot S$.

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