

Exemplars

Name: _____

P/S	R/P	Com	Con	Rep	A/Level

Jugglers Juggling Δ

Jugglers Juggling

Andrew loves watching the jugglers at the circus. The act begins with one juggler. The juggler juggles three pins at once. A second juggler joins the act. The two jugglers work together to juggle five pins. A third juggler joins the act. The three jugglers work together to juggle seven pins. A fourth juggler joins the act. The four jugglers work together to juggle nine pins. If this pattern continues, how many pins can seven jugglers juggle? Show all your mathematical thinking.