

5) Five rolls

$$\frac{6}{\text{any \#}} \frac{5}{\uparrow \text{any \# except the 1st}} \frac{5}{\uparrow \text{any \# except the 2nd}} \frac{5}{\uparrow} \frac{5}{\uparrow} = 6 \cdot 5^4$$

6) Six digits, all digits even or all digits odd

All digits even: $\frac{4}{2,4,6,8} \frac{5}{0,2,4,6,8} \frac{5}{\uparrow} \frac{5}{\uparrow} \frac{5}{\uparrow} \frac{5}{\uparrow} = 4 \cdot 5^5$

All digits odd: $\frac{5}{1,3,5,7,9} \frac{5}{1,3,5,7,9} \frac{5}{\uparrow} \frac{5}{\uparrow} \frac{5}{\uparrow} \frac{5}{\uparrow} = 5^6$

Answer $4 \cdot 5^5 + 5^6$ or $9 \cdot 5^5$

(both okay)