



7. Which of the following has the largest value?

A  $\frac{\left(\frac{1}{2}\right)}{\left(\frac{3}{4}\right)}$       B  $\frac{1}{\left(\frac{\left(\frac{2}{3}\right)}{4}\right)}$       C  $\frac{\left(\frac{\left(\frac{1}{2}\right)}{3}\right)}{4}$       D  $\frac{1}{\left(\frac{2}{\left(\frac{3}{4}\right)}\right)}$       E  $\frac{\left(\frac{1}{\left(\frac{2}{3}\right)}\right)}{4}$

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7. **B** Evaluating each option gives

$$\begin{array}{lll} \text{A } \frac{\left(\frac{1}{2}\right)}{\left(\frac{3}{4}\right)} = \frac{1}{2} \times \frac{4}{3} = \frac{2}{3} & \text{B } \frac{1}{\left(\frac{\left(\frac{2}{3}\right)}{4}\right)} = \frac{1}{\left(\frac{2}{12}\right)} = \frac{12}{2} = 6 & \text{C } \frac{\left(\frac{1}{3}\right)}{4} = \frac{\left(\frac{1}{6}\right)}{4} = \frac{1}{24} \\ \text{D } \frac{1}{\frac{2}{\left(\frac{3}{4}\right)}} = \frac{1}{\left(\frac{8}{3}\right)} = \frac{3}{8} & \text{E } \frac{\left(\frac{1}{\left(\frac{3}{4}\right)}\right)}{4} = \frac{\left(\frac{4}{3}\right)}{4} = \frac{1}{3} \end{array}$$

So B has the largest answer.