

$$\frac{7}{8} \cdot \frac{3}{4} = \frac{7 \cdot 3}{8 \cdot 4} = \frac{21}{32}$$

$$\frac{2}{14} \cdot \frac{22}{357} = \frac{2 \cdot 2}{1 \cdot 7} = \frac{4}{7}$$
Simplify before you
multiply

$$X = \frac{4}{9}$$

$$\frac{2}{3} \cdot X$$

$$\frac{2}{3} \cdot \frac{4}{9} = \frac{8}{27}$$

Why is the product
smaller than the factor
$$\frac{7}{9} \cdot \frac{1}{5} = \frac{7}{45}$$

<1 it decreases
=1 it stays the same
>1 it increases

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$$\frac{1}{2\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} \times \frac{\sqrt{2}}{5}$$
$$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{5}$$
$$\frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$$

$$\begin{vmatrix} x & x & x \\ x & x & y \\ y & y & y \\ 1 & y & y \\ 2 & x & 1 & x \\ \frac{1}{2} & x & 1 \\ \frac{1}{2} & x & 1$$