

6.) Compute:

a. $(0.3)^3 = 0.3 \cdot 0.3 \cdot 0.3 = \underline{\underline{0.027}}$ b. $(4.5)^2 = 4.5(4.5) = \underline{\underline{20.25}}$ c. $(0.02)^3 = 0.02 \cdot 0.02 \cdot 0.02 = \underline{\underline{0.000008}}$ d. $(1.0)^4 = 1 \cdot 1 \cdot 1 \cdot 1 = \underline{\underline{1}}$

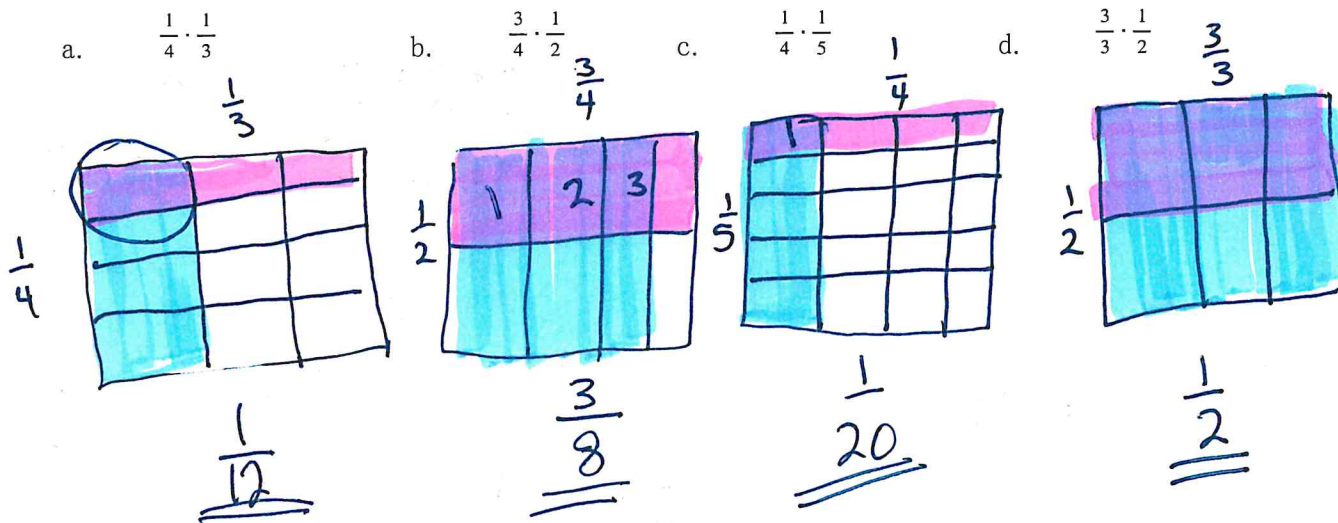
7.) Compute:

a. $\left(\frac{6}{3}\right)^2 = \frac{2 \cdot 6}{1 \cdot 3} \cdot \frac{2 \cdot 6}{1 \cdot 3} = \underline{\underline{4}}$ b. $\left(\frac{2}{3}\right)^4 = \frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3} = \frac{4}{9} \cdot \frac{2}{3} = \frac{8}{27} \cdot \frac{2}{3} = \frac{16}{81}$

8.) Fill in the multiplication table. Simplify where possible.

Multiply:	3	$\frac{3}{4}$	$2\frac{1}{2}$
12	36	$3\frac{12}{1} \cdot \frac{3}{4} = 9$	$6\frac{12}{2} \cdot \frac{5}{2} = 30$
$\frac{1}{9}$	$\frac{1}{9} \cdot \frac{3}{1} = \frac{1}{3}$	$\frac{1}{9} \cdot \frac{3}{4} = \frac{1}{12}$	$\frac{1}{9} \cdot \frac{5}{2} = \frac{5}{18}$
$\frac{2}{5}$	$\frac{2}{5} \cdot \frac{3}{1} = \frac{6}{5} = 1\frac{1}{5}$	$\frac{2}{5} \cdot \frac{3}{4} = \frac{3}{10}$	$\frac{2}{5} \cdot \frac{5}{2} = 1$

9.) Draw a model for each of the following multiplication problems and compute the answer.



10.) Multiply: $\left(5\frac{1}{2}\right) \cdot \left(2\frac{1}{6}\right) =$

$\frac{11}{2} \cdot \frac{13}{6} = \frac{143}{12} = \underline{\underline{11\frac{11}{12}}}$