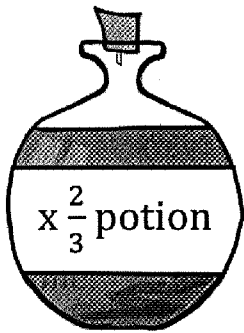


Name: \_\_\_\_\_

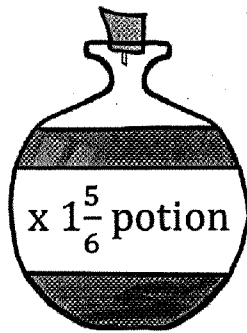
Monday  
Night

Dr. Von Scalenstein, the mad scientist, created sizing potions that can cause objects to grow or shrink. Five of his potions are shown below. Label each potion with the word *growing* or *shrinking* to show the effect of the potion.



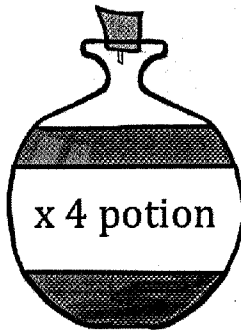
\_\_\_\_\_

potion



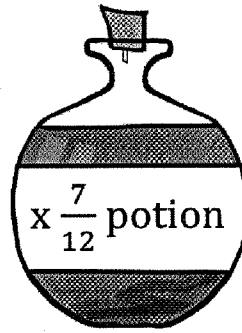
\_\_\_\_\_

potion



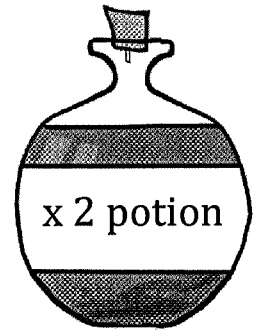
\_\_\_\_\_

potion



\_\_\_\_\_

potion



\_\_\_\_\_

potion

Find the fraction of each number.

$$\frac{1}{3} \text{ of } 24 = \underline{\quad}$$

$$\frac{1}{5} \text{ of } 20 = \underline{\quad}$$

$$\frac{1}{10} \text{ of } 30 = \underline{\quad}$$

$$\frac{2}{3} \text{ of } 24 = \underline{\quad}$$

$$\frac{3}{5} \text{ of } 20 = \underline{\quad}$$

$$\frac{6}{10} \text{ of } 30 = \underline{\quad}$$

Fill in the blanks.

$$3^2 \text{ base: } \underline{\quad} \text{ exponent: } \underline{\quad}$$

$$5^8 \text{ base: } \underline{\quad} \text{ exponent: } \underline{\quad}$$

$$7^4 \text{ base: } \underline{\quad} \text{ exponent: } \underline{\quad}$$

$$2^1 \text{ base: } \underline{\quad} \text{ exponent: } \underline{\quad}$$

$$4^5 = \underline{\quad} \text{ to the } \underline{\quad} \text{ power}$$

$$3^2 = \underline{\quad} \text{ to the } \underline{\quad} \text{ power}$$

Find the products for at least three of the problems in the first row and two problems in the second row.

$\begin{array}{r} 103 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 887 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 682 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 418 \\ \times 7 \\ \hline \end{array}$	$\begin{array}{r} 6,827 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 3,905 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 5,074 \\ \times 6 \\ \hline \end{array}$
--	--	--	--	--	--	--

$\begin{array}{r} 38 \\ \times 44 \\ \hline \end{array}$	$\begin{array}{r} 85 \\ \times 25 \\ \hline \end{array}$	$\begin{array}{r} 88 \\ \times 48 \\ \hline \end{array}$	$\begin{array}{r} 49 \\ \times 96 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ \times 63 \\ \hline \end{array}$
--	--	--	--	--

Place a  $\checkmark$  next to the true statement.

$$\frac{2}{3} \times \frac{5}{5}$$

The product is less than  $\frac{2}{3}$ .

The product is equal to  $\frac{2}{3}$ .

The product is greater than  $\frac{2}{3}$ .

$$\frac{10}{2} \times \frac{3}{4}$$

The product is less than  $\frac{3}{4}$ .

The product is equal to  $\frac{3}{4}$ .

The product is greater to  $\frac{3}{4}$ .