Name: $\qquad$
$20^{5} 58$
$126^{18}$
What does it mean to multiply by a fraction?
To find part of a number!
Multiplying with Fractions

Date: $\qquad$
I. Multiplying Fractions by Whole Numbers

Ex 1: $\frac{1}{6} \times 12=\frac{1}{6}$ of $\mid 2^{" 1}$
Ex 2: $5 \times \frac{3}{5}=$


$$
=\frac{15}{5}=3
$$

II. Multiplying Fractions by Fractions $\frac{1}{3} \circ \frac{1}{2}$

Ex 3: $\frac{1}{2} \times \frac{1}{3}=\frac{1}{6}$
Ex 4: $\frac{1}{3} \times \frac{1}{2}=\frac{1}{6}$
Ex 5: $\frac{2}{3} \times \frac{3}{4}=\frac{1}{2}$


How do we complete these problems without using figures?


Ex 1: $\frac{1}{6} \times 12=$

$$
\frac{1}{6} \times \frac{12}{1}=\frac{12}{6}=2
$$

Ex 2: $5 \times \frac{3}{5}=$

$$
\frac{5}{1} \times \frac{3}{5}=\frac{15}{5}=3
$$

Now you try! Write your answers in simplest form!

1) $\frac{5}{6} \times 12=$

$$
\frac{5}{6} \frac{12=\frac{60}{1}}{1}=10
$$

2) $6 \times \frac{3}{4}=$

Now you try! Write your answers in simplest form!

1) $\frac{5}{6} \times \frac{2}{3}=$
2) $\frac{7}{10} \times \frac{3}{4}=\frac{21}{40}$

III. Multiplying with Mixed Numbers

How do we multiply with mixed numbers? Simply convert them into Don't forget to put your answers in simplest form!!!
Ex: $\quad \times \int_{3^{2}}^{\frac{1}{2} \times \frac{2}{5}}=$


Ex:

2


Now you try! Write your answers in simplest form!

1) $1 \frac{5}{6} \times \frac{3}{11}=$
2) $\frac{2}{7} \times 5 \frac{3}{5}=$

$$
\begin{array}{r}
\frac{11}{6} \times \frac{3}{11}=\frac{33}{69}=\frac{2}{2} \times \frac{28}{\frac{2}{2} \times 1}=\frac{7}{5}=\frac{8}{5} \\
1 \frac{3}{5}
\end{array}
$$

3) $3 \frac{5}{9} \times \frac{1}{8}=$

$$
\frac{3}{2} \times \frac{1}{8}=\frac{37}{72}=\frac{15}{36}
$$



