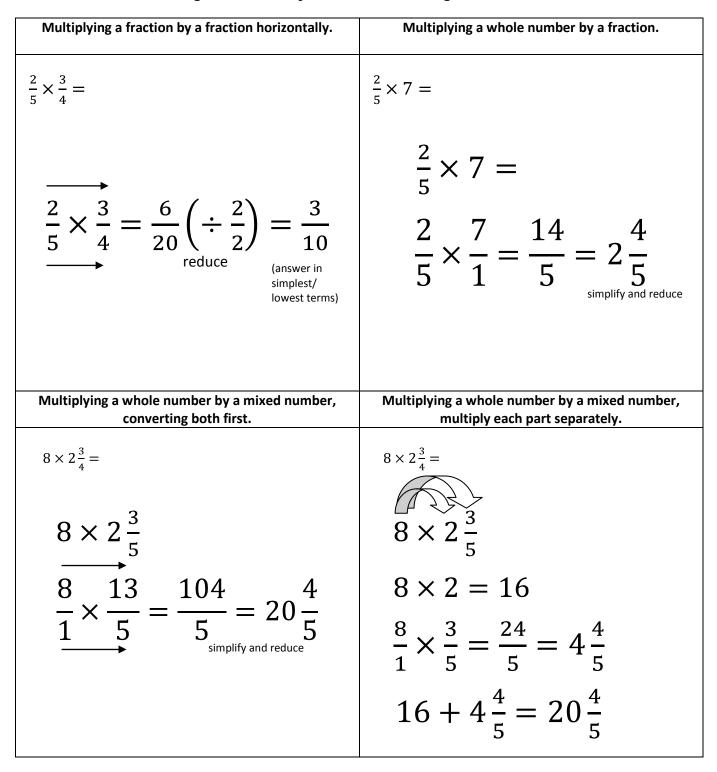
CLASS NOTES: Bits & Pieces II

Date _____

Multiplication Algorithms

Below are most of the algorithms that you and your classmates came up with in class. Please choose 1 or 2 algorithms that you will use on a regular basis.



Multiplying a mixed number by a mixed number, converting both first.	Multiplying a mixed number by a mixed number, multiply each part separately.
$1\frac{2}{3} \times 3\frac{1}{4} =$ $1\frac{2}{3} \times 3\frac{1}{4} =$ $\frac{5}{3} \times \frac{13}{4} = \frac{65}{12} = 5\frac{5}{12}$	$1\frac{2}{3} \times 3\frac{1}{4} =$ $1\frac{2}{3}$ $3\frac{1}{3}\frac{6}{3} = 2$ $\frac{1}{4}\frac{1}{4}\frac{2}{12} = \frac{1}{6}$ $3 + 2 + \frac{1}{4}(\times \frac{3}{3}) + \frac{1}{6}(\times \frac{2}{2}) =$ $3 + 2 + \frac{3}{12} + \frac{2}{12} = 5\frac{5}{12}$
Multiplying a mixed number by a mixed number, convert to decimals first.	
$1\frac{2}{5} \times 2\frac{1}{4} =$ $1.4 \times 2.25 =$ 2.25 $\frac{\times 1.4}{900}$ $\frac{+ 2250}{3.150} = 3\frac{15}{100} = 3\frac{3}{20}$	

Multiplication Algorithms