## **REVIEW**

How do you change a mixed number to an improper fraction?

$$3\frac{1}{2}$$

$$4\frac{3}{5}$$

$$-1\frac{2}{3}$$
  $-5\frac{1}{3}$ 

$$-5\frac{1}{3}$$

How do you change an improper fraction into a mixed number?

$$\frac{-8}{3}$$

$$\frac{-15}{2}$$

## **Steps for Adding and Subtracting Fractions**

- 1) Make sure you have common denominators
- 2) Change all mixed numbers to improper fractions
- 3) Add or subtract numerators Use Integer Rules!
- 4) Denominators stay the same
- 5) Reduce all final answers

## **Try These**

1) 
$$\frac{2}{3} + \frac{3}{5}$$

2) 
$$-\frac{7}{8} + \frac{3}{4}$$

3) 
$$5\frac{1}{3} - \frac{3}{4}$$

4) 
$$-4\frac{3}{5} + 2\frac{1}{2}$$

4) 
$$-4\frac{3}{5} + 2\frac{1}{2}$$
 5)  $-4\frac{3}{5} - 2\frac{1}{2}$  6)  $3\frac{1}{3} + -5\frac{2}{5}$ 

6) 
$$3\frac{1}{3} + -5\frac{2}{5}$$

7) 
$$-\frac{1}{2}-(-\frac{1}{3})$$

8) 
$$-\frac{3}{7} - (-3\frac{1}{3})$$

	9) Sally, her brother, and another partner own a pizza restaurant. If Sally owns 1/3 of the restaurant and her brother owns ¼ of the restaurant, what part does the third partner own? How do you know?
	10) Mark has $\frac{1}{8}$ of a peanut butter pie, Chanel has $\frac{1}{5}$ of the pie, and CJ has $\frac{1}{4}$ of the pie. Together do they have a whole pie? If not, how much more of the pie do they need?
Steps for Multiplying Fractions	<ol> <li>Change all mixed numbers to improper fractions</li> <li>Cross simplify if possible</li> <li>Multiply numerators - Use Integer Rules!</li> <li>Multiply denominators - Use Integer Rules!</li> <li>Reduce final fractions</li> </ol>
Try These	1) $\frac{4}{9} \cdot \frac{3}{36}$ 2) $5\frac{1}{2} \cdot 1\frac{2}{3}$ 3) $-6 \cdot 1\frac{1}{4}$ 4) $-3\frac{2}{3} \cdot 1\frac{4}{11}$ 5) Ariel's English homework is to read 24 pages. She reads $\frac{1}{8}$ of the assignment on the bus ride home. How many pages does she read on the bus?
Steps for Dividing Fractions	<ol> <li>Change all mixed numbers to improper fractions</li> <li>Rewrite the division problem as a multiplication problem:         <ul> <li>keep first fraction and multiply by the reciprocal of the second fraction</li> </ul> </li> <li>Multiply numerators - Use Integer Rules!</li> <li>Multiply denominators - Use Integer Rules!</li> <li>Reduce final fractions</li> </ol>
Try These	1) $\frac{2}{3} \div 4$ 2) $1\frac{3}{4} \div -2\frac{5}{8}$ 3) $-\frac{1}{4} \div 1\frac{1}{2}$ 4) $-8 \div \frac{4}{7}$ 5) Joey has 12 ½ yards of material. A cape for a play takes $3\frac{5}{6}$ yards. How many capes can Joey make with the material?