Guided Notes

# 4.8 Divide Mixed Numbers (6.NS.1)

**Rules:**
- Change the mixed numbers to improper fractions.
- Multiply by the reciprocal.
- Simplify, if needed.

**Guided Practice:**
Divide. Write in simplest form.

1.) $3\frac{1}{2} \div \frac{1}{2}$ → $\frac{7}{2} \div \frac{1}{2}$

$\frac{7}{2_1} \times \frac{2^1}{1} = \frac{7}{1}$

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2.) $2\frac{2}{3} \div 1\frac{1}{6}$ → $\frac{8}{3} \div \frac{7}{6}$

$\frac{8}{3_1} \times \frac{16^2}{7} = \frac{16}{7}$

$2\frac{2}{7}$

3.) $6\frac{2}{3} \div 2\frac{6}{7}$ → $\frac{20}{3} \div \frac{20}{7}$

$\frac{20}{3} \times \frac{7}{20_1} = \frac{7}{3}$

$2\frac{1}{3}$

4.) A box of snack-size crackers packs weighs 28 ½ ounces. Each snack pack weighs 4 ¾ ounces. How many snack packs are in the box?

$28\frac{1}{2} \div 4\frac{3}{4}$ → $\frac{57}{2} \div \frac{19}{4}$

$\frac{3}{\cancel{57}_1} \times \frac{\cancel{4}^2}{\cancel{19}_1} = \frac{6}{1} = 6$

There are 6 snack packs in the box.

**Partner Talk**

The soccer team has 16 ½ boxes of wrapping paper left to sell. If each of the 12 players sells the same amount, how many boxes should each player sell?

$16\frac{1}{2} \div 12$ → $\frac{33}{2} \div \frac{12}{1}$

$\frac{\overset{11}{\cancel{33}}}{2} \times \frac{1}{\cancel{12}_4} = \frac{11}{8} = 1\frac{3}{8}$

Each player should sell 1 3/8 boxes of wrapping paper.

**Building on the Essential Question** – How do you divide mixed numbers?

1. Change the mixed numbers to improper fractions.
2. multiply by the reciprocal.
3. Simplify (if needed).

**Rate Yourself** – Check the one that applies.

_____ I understand how to divide mixed numbers.

_____ I still have some questions about dividing mixed numbers