

CLO:

Students will review how to add, subtract, multiply and divide fractions to strengthen their understanding of fraction manipulation

Warm - Up

1. $\frac{9+3}{4} * 2^3 - (7 + 9 \div 3)$

2. $36 \div 12 * 5 - 9 + 3^2$

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$$\begin{array}{l} 10 \quad 10 \quad 10 \\ \text{Horse} + \text{Horse} + \text{Horse} = 30 \\ \\ 10 \quad 4 \quad 4 \\ \text{Horse} + \text{Horseshoes} + \text{Horseshoes} = 18 \\ \\ 4 \quad 2 \\ \text{Horseshoes} - \text{Boots} = 2 \\ \\ 1 \quad 10 \quad 2 \\ \text{Boot} + \text{Horse} \times \text{Horseshoe} = ?? \\ \\ 1 + 10 = 11 \\ 11 \times 2 = 22 \end{array}$$

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Fractions !!!!

Fractions are a word that many students fear, there is a constant struggle as to how to deal with fractions.

But fear not, we will work through these fears and hopefully provide you with the tools you need to never fear fractions again!

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ADDING OR SUBTRACTING FRACTIONS

- To add or subtract fractions, the key is to make sure you have a **COMMON DENOMINATOR!**
- If you have a **common denominator**, then you can either add or subtract the fractions.
- If you do not have a **common denominator** then you will need to find a number that both denominators have in common.

Denominator – bottom # in a fraction $\frac{n}{d}$

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COMMON DENOMINATOR

$$\frac{3}{8} + \frac{17}{8} = \frac{20}{8} = \frac{5}{2}$$

$$\frac{5}{6} - \frac{11}{6} = -1\frac{6}{6}$$

NO COMMON DENOMINATOR

$$2\left(\frac{13}{7}\right) + \left(\frac{9}{2}\right)7 = \frac{26}{14} + \frac{63}{14}$$

$\frac{89}{14} =$

$$2\left(\frac{4}{3}\right) - \left(\frac{5}{2}\right)$$

$$\frac{8}{6} - \frac{15}{6} = -\frac{7}{6}$$

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PRACTICE

$$\frac{25}{7} - \frac{16}{7}$$

$$\frac{9}{7}$$

$$\frac{15}{8} + \frac{3}{8}$$

$$\frac{18}{8}$$

$$5\left(\frac{11}{2}\right) + \left(\frac{2}{5}\right)2$$

$$\frac{55}{10} + \frac{4}{10} = \frac{59}{10}$$

$$12\left(\frac{2}{3}\right) + \frac{8}{36}$$

$$\frac{13}{3} - \frac{1}{4}$$

$$\frac{24}{36} + \frac{8}{36} = \frac{32}{36} = \frac{8}{9}$$

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MIXED FRACTIONS

- TO CONVERT A MIXED FRACTION TO AN IMPROPER FRACTION, **MULTIPLY** THE **BASE** BY THE **DENOMINATOR**, THEN **ADD** THE **NUMERATOR** WHICH WILL GIVE YOU YOUR **SUM**
- TAKE YOUR **SUM** AND PLACE IT OVER THE **DENOMINATOR**

MIXED FRACTION

IMPROPER FRACTION

$$3\frac{5}{8}$$
$$3 \cdot 8 = 24 + 5 = \frac{29}{8}$$

$$3\frac{2}{3} + 2\frac{7}{8}$$

$$3\left(\frac{11}{3}\right) + \left(\frac{23}{8}\right) 3$$

$$\frac{88}{24} + \frac{69}{24}$$

$$\frac{157}{24}$$

$$8 + \frac{2}{3}$$

$$3\left(\frac{8}{1}\right) + \frac{2}{3}$$

$$\frac{24}{3} + \frac{2}{3} = \left(\frac{26}{3}\right)$$

$$7\frac{3}{3} + \frac{2}{3}$$

$$7\frac{5}{3}$$

