Practice: Converting Between Mixed Numerals and Improper Fractions

Name: _____ Date: _____

Question 1

Convert the mixed numerals into improper fractions

I. $4\ \frac{2}{5}$

II. $8\ \frac{1}{10}$

III. $20\ \frac{2}{3}$

IV. $-12\ \frac{2}{7}$

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Question 2

Convert the improper fractions into mixed numerals

I. $\frac{29}{6}$

II. $\frac{65}{9}$

III. $\frac{7}{3}$

IV. $-\frac{231}{18}$

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Name: **Key** Date: _____

Question 1

Convert the mixed numerals into improper fractions

I. $4\ \frac{2}{5}$

Method 1

$(4 \cdot 5) + 2 = 22$

$\frac{22}{5}$

Method 2

$\underbrace{\frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{5}{5}}_{4} + \frac{2}{5} = \frac{22}{5}$

II. $8\ \frac{1}{10}$

Method 1

$(8 \cdot 10) + 1 = 81$

$\frac{81}{10}$

Method 2

$\underbrace{\frac{10}{10} + \frac{10}{10} + \frac{10}{10} + \frac{10}{10} + \frac{10}{10} + \frac{10}{10} + \frac{10}{10} + \frac{10}{10}}_{8} + \frac{1}{10} = \frac{81}{10}$

III. $20\ \frac{2}{3}$

Method 1 $(20 \cdot 3) + 2 = 62$

$\frac{62}{3}$

Method 2

$\underbrace{\frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{3}{3}}_{20} + \frac{2}{3} = \frac{62}{3}$

IV. $-12\ \frac{2}{7}$

Method 1

$(12 \cdot 7) + 2 = 86$

$\frac{86}{7}$

$-\frac{86}{7}$

Method 2

$\underbrace{\frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7} + \frac{7}{7}}_{12} + \frac{2}{7} = \frac{86}{7} \rightarrow -\frac{86}{7}$

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Practice: Converting Between Mixed Numerals and Improper Fractions

Question 2

Convert the improper fractions into mixed numerals

I. $\frac{29}{6}$

Method 1

$$6 \overline{)29} \quad \text{quotient } 04;\quad 29 - 24 = 5 \rightarrow 4\frac{5}{6}$$

Method 2

$$\underbrace{\frac{6}{6} + \frac{6}{6} + \frac{6}{6} + \frac{6}{6}}_{4} + \frac{5}{6} \rightarrow 4\frac{5}{6}$$

II. $\frac{65}{9}$

Method 1

$$9 \overline{)65} \quad \text{quotient } 07;\quad 65 - 63 = 2 \rightarrow 7\frac{2}{9}$$

Method 2

$$\underbrace{\frac{9}{9} + \frac{9}{9} + \frac{9}{9} + \frac{9}{9} + \frac{9}{9} + \frac{9}{9} + \frac{9}{9}}_{7} + \frac{2}{9} \rightarrow 7\frac{2}{9}$$

III. $\frac{7}{3}$

Method 1

$$3 \overline{)7} \quad \text{quotient } 2;\quad 7 - 6 = 1 \rightarrow 2\frac{1}{3}$$

Method 2

$$\underbrace{\frac{3}{3} + \frac{3}{3}}_{2} + \frac{1}{3} \rightarrow 2\frac{1}{3}$$

IV. $-\frac{231}{18}$

Method 1

$$18 \overline{)231} \quad \text{quotient } 012;\quad 231 - 216 = 15 \rightarrow 12\frac{15}{18} \rightarrow 12\frac{5}{6} \rightarrow -12\frac{5}{6}$$

Method 2

$$\underbrace{\frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18} + \frac{18}{18}}_{12} + \frac{15}{18} \rightarrow 12\frac{15}{18} \rightarrow 12\frac{5}{6} \rightarrow -12\frac{5}{6}$$

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