

Name: _____

Arithmetic Operations with Rational Numbers

A) Add the following Fractions (reduce all fractions to lowest terms)

1) $\frac{4}{23} + \frac{7}{23}$

2) $\frac{6}{45} + \frac{9}{45}$

3) $\frac{2}{3} + \frac{5}{9}$

4) $\frac{1}{4} + \frac{3}{7}$

5) $1\frac{4}{23} + 3\frac{11}{23}$

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

B) Multiply the following Fractions (reduce all fractions to lowest terms)

1) $6 \times \frac{2}{18}$

2) $\frac{6}{7} \times \frac{2}{5}$

3) $\frac{4}{9} \times \frac{3}{8}$

4) $\frac{8}{21} \times \frac{49}{16}$

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

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

C) Divide the following Fractions (reduce all fractions to lowest terms)

1) $6 \div \frac{1}{9}$

2) $\frac{1}{9} \div 6$

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

4) $1\frac{1}{3} \div \frac{5}{6}$

5) $2 \div 1\frac{5}{7}$

6) $5\frac{1}{4} \div 2\frac{2}{7}$

D) Perform the indicated operation

1) $\frac{9}{11} + \frac{5}{12}$

2) $\frac{13}{24} - \frac{5}{36}$

3) $\frac{3}{4} + \frac{5}{6}$

4) $\frac{3}{8} - \frac{5}{6}$

5) $8\frac{4}{5} + 8\frac{1}{10}$

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

7) $1\frac{2}{3} + \frac{3}{7}$

8) $16\frac{5}{8} + \frac{11}{12}$

9) $3\frac{4}{5} + 6\frac{2}{3} + 5\frac{11}{15}$