

Name: \_\_\_\_\_

1. Write the following in lowest terms:

a)  $\frac{8}{10}$

b)  $\frac{-3}{30}$

c)  $\frac{25}{30}$

d)  $\frac{-12}{20}$

e)  $\frac{14}{42}$

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2. Evaluate. Make sure your answers are in lowest terms.

a)  $\frac{-2}{3} \times \frac{5}{7}$

b)  $-\frac{7}{15} \times \frac{-5}{14}$

c)  $\frac{9}{44} \div \frac{-12}{11}$

d)  $-1\frac{2}{7} \div \frac{8}{3}$

e)  $-1\frac{1}{2} - \frac{1}{2}$

f)  $\frac{3}{8} + \frac{2}{4}$

g)  $\frac{4}{5} + \left(\frac{-5}{4}\right)$

h)  $\frac{6}{9} - \frac{1}{3}$

m)  $\frac{-1}{3} + \left(-1\frac{2}{5}\right)$

n)  $\frac{-5}{2} \div \left(-1\frac{7}{8}\right)$

o)  $\frac{-3}{4} \times \frac{5}{6}$

p)  $\frac{7}{10} - \left(\frac{-3}{5}\right)$

Name: \_\_\_\_\_

2, 3, 5, 7, 11

1. Write the following in lowest terms:

$$\begin{aligned} \text{a) } & \frac{8^{\div 2}}{10^{\div 2}} \\ & = \frac{4}{5} \end{aligned}$$

$$\begin{aligned} \text{b) } & \frac{-3^{\div 3}}{30^{\div 3}} \\ & = \frac{-1}{10} \end{aligned}$$

$$\begin{aligned} \text{c) } & \frac{25^{\div 5}}{30^{\div 5}} \\ & = \frac{5}{6} \end{aligned}$$

$$\begin{aligned} \text{d) } & \frac{-12^{\div 2}}{20^{\div 2}} \\ & = \frac{-6^{\div 2}}{10^{\div 2}} = \frac{-3}{5} \end{aligned}$$

$$\begin{aligned} \text{e) } & \frac{14^{\div 7}}{42} \\ & = \frac{2^{\div 2}}{6^{\div 2}} = \frac{1}{3} \end{aligned}$$

2. Evaluate. Make sure your answers are in lowest terms.

$$\begin{aligned} \text{a) } & \frac{-2}{3} \times \frac{5}{7} \\ & = \frac{-10}{21} \end{aligned}$$

$$\begin{aligned} \text{b) } & -\frac{7}{15} \times \frac{-5}{14} \\ & = \frac{35^{\div 5}}{210^{\div 5}} \\ & = \frac{7^{\div 7}}{42^{\div 7}} = \frac{1}{6} \end{aligned}$$

$$\begin{aligned} \text{c) } & \frac{9}{44} \div \frac{-12}{11} \\ & = \frac{9}{44} \times \frac{11}{-12} \\ & = \frac{99^{\div 11}}{-528^{\div 11}} \\ & = \frac{9^{\div 3}}{-48^{\div 3}} = \frac{3}{-16} \end{aligned}$$

$$\begin{aligned} \text{d) } & -1\frac{2}{7} \div \frac{8}{3} \\ & = -\frac{9}{7} \times \frac{3}{8} \\ & = \frac{-27}{56} \end{aligned}$$

$$\begin{aligned} \text{e) } & -1\frac{1}{2} - \frac{1}{2} \\ & = -\frac{3}{2} - \frac{1}{2} \\ & = \frac{-4}{2} \\ & = -2 \end{aligned}$$

$$\begin{aligned} \text{f) } & \frac{3^{\times 4}}{8^{\times 4}} + \frac{2^{\times 8}}{4^{\times 8}} \\ & = \frac{12}{32} + \frac{16}{32} \\ & = \frac{28^{\div 4}}{32^{\div 4}} \\ & = \frac{7}{8} \end{aligned}$$

$$\begin{aligned} \text{g) } & \frac{4^{\times 4}}{5} + \left(\frac{-5}{4}\right)^{\times 4} \\ & = \frac{16}{20} + \frac{-25}{20} \\ & = \frac{-9}{20} \end{aligned}$$

$$\begin{aligned} \text{h) } & \frac{6^{\times 3}}{9^{\times 3}} - \frac{1^{\times 9}}{3^{\times 9}} \\ & = \frac{18}{27} - \frac{9}{27} \\ & = \frac{9^{\div 9}}{27^{\div 9}} \\ & = \frac{1}{3} \end{aligned}$$

$$\begin{aligned} \text{m) } & \frac{-1}{3} + \left(-1\frac{2}{5}\right) \\ & \frac{-1^{\times 5}}{3^{\times 5}} + \frac{-7^{\times 5}}{5^{\times 5}} \\ & = \frac{-5}{15} + \frac{-21}{15} \\ & = \frac{-26}{15} \end{aligned}$$

$$\begin{aligned} \text{n) } & \frac{-5}{2} \div \left(-1\frac{7}{8}\right) \\ & \frac{-5}{2} \div \left(\frac{-15}{8}\right) \\ & = \frac{-5}{2} \times \frac{8}{-15} \\ & = \frac{-40}{-30} \\ & = \frac{4}{3} \end{aligned}$$

$$\begin{aligned} \text{o) } & \frac{-3}{4} \times \frac{5}{6} \\ & = \frac{-15^{\div 3}}{24^{\div 3}} \\ & = \frac{-5}{8} \end{aligned}$$

$$\begin{aligned} \text{p) } & \frac{7^{\times 5}}{10^{\times 5}} - \left(\frac{-3}{5}\right)^{\times 10} \\ & = \frac{35}{50} - \left(\frac{-30}{50}\right) \\ & = \frac{65^{\div 5}}{50^{\div 5}} \\ & = \frac{13}{10} \end{aligned}$$