Order of Operations with Fractions (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(-\frac{1}{2}\right)^3 \times \left(\left(-\frac{2}{3}\right) \div \left(-\frac{5}{6}\right) - \frac{1}{2}\right)$

$\left(\frac{2}{3}\right)^2 \times \left(\frac{5}{6} \div \frac{2}{5} - \frac{1}{4}\right)$

$\left(\left(-\frac{3}{5}\right) \times \left(\frac{1}{2}\right)^2\right) \div \left(\left(-\frac{1}{8}\right) + \frac{3}{5}\right)$

$\left(\left(-\frac{1}{5}\right)^2 - \frac{2}{5} + \frac{1}{5}\right) \times \left(-\frac{7}{8}\right)$

Order of Operations with Fractions (A)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(-\frac{1}{2}\right)^3 \times \left(\left(-\frac{2}{3}\right) \div \left(-\frac{5}{6}\right) - \frac{1}{2}\right)$

$= \left(-\frac{1}{2}\right)^3 \times \left(\frac{4}{5} - \frac{1}{2}\right)$

$= \left(-\frac{1}{2}\right)^3 \times \frac{3}{10}$

$= \left(-\frac{1}{8}\right) \times \frac{3}{10}$

$= -\frac{3}{80}$

$\left(\frac{2}{3}\right)^2 \times \left(\frac{5}{6} \div \frac{2}{5} - \frac{1}{4}\right)$

$= \left(\frac{2}{3}\right)^2 \times \left(\frac{25}{12} - \frac{1}{4}\right)$

$= \left(\frac{2}{3}\right)^2 \times \frac{11}{6}$

$= \frac{4}{9} \times \frac{11}{6}$

$= \frac{22}{27}$

$\left(\left(-\frac{3}{5}\right) \times \left(\frac{1}{2}\right)^2\right) \div \left(\left(-\frac{1}{8}\right) + \frac{3}{5}\right)$

$= \left(\left(-\frac{3}{5}\right) \times \frac{1}{4}\right) \div \left(\left(-\frac{1}{8}\right) + \frac{3}{5}\right)$

$= \left(-\frac{3}{20}\right) \div \left(\left(-\frac{1}{8}\right) + \frac{3}{5}\right)$

$= \left(-\frac{3}{20}\right) \div \frac{19}{40}$

$= -\frac{6}{19}$

$\left(\left(-\frac{1}{5}\right)^2 - \frac{2}{5} + \frac{1}{5}\right) \times \left(-\frac{7}{8}\right)$

$= \left(\frac{1}{25} - \frac{2}{5} + \frac{1}{5}\right) \times \left(-\frac{7}{8}\right)$

$= \left(\left(-\frac{9}{25}\right) + \frac{1}{5}\right) \times \left(-\frac{7}{8}\right)$

$= \left(-\frac{4}{25}\right) \times \left(-\frac{7}{8}\right)$

$= \frac{7}{50}$

Order of Operations with Fractions (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\frac{4}{5} \times \left(\left(\frac{1}{6} \right)^2 + \frac{2}{3} \right) \div \left(-\frac{1}{2} \right)$

$\left(\left(-\frac{2}{3} \right) - \left(-\frac{2}{9} \right) \right)^2 \times \left(\frac{3}{4} + \frac{3}{8} \right)$

$\left(-\frac{2}{5} \right) \times \frac{2}{9} \div \left(\frac{4}{9} + \frac{5}{9} \right)^2$

$\left(\frac{7}{9} + \left(\frac{1}{6} \right)^2 \div \frac{5}{8} \right) \times \left(-\frac{5}{6} \right)$

Order of Operations with Fractions (B)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\frac{4}{5} \times \left(\left(\frac{1}{6} \right)^2 + \frac{2}{3} \right) \div \left(-\frac{1}{2} \right)$

$= \frac{4}{5} \times \left(\frac{1}{36} + \frac{2}{3} \right) \div \left(-\frac{1}{2} \right)$

$= \frac{4}{5} \times \frac{25}{36} \div \left(-\frac{1}{2} \right)$

$= \frac{5}{9} \div \left(-\frac{1}{2} \right)$

$= -\frac{10}{9}$

$= -1\frac{1}{9}$

$\left(\left(-\frac{2}{3} \right) - \left(-\frac{2}{9} \right) \right)^2 \times \left(\frac{3}{4} + \frac{3}{8} \right)$

$= \left(-\frac{4}{9} \right)^2 \times \left(\frac{3}{4} + \frac{3}{8} \right)$

$= \left(-\frac{4}{9} \right)^2 \times \frac{9}{8}$

$= \frac{16}{81} \times \frac{9}{8}$

$= \frac{2}{9}$

$\left(-\frac{2}{5} \right) \times \frac{2}{9} \div \left(\frac{4}{9} + \frac{5}{9} \right)^2$

$= \left(-\frac{2}{5} \right) \times \frac{2}{9} \div 1^2$

$= \left(-\frac{2}{5} \right) \times \frac{2}{9} \div 1$

$= \left(-\frac{4}{45} \right) \div 1$

$= -\frac{4}{45}$

$\left(\frac{7}{9} + \left(\frac{1}{6} \right)^2 \div \frac{5}{8} \right) \times \left(-\frac{5}{6} \right)$

$= \left(\frac{7}{9} + \frac{1}{36} \div \frac{5}{8} \right) \times \left(-\frac{5}{6} \right)$

$= \left(\frac{7}{9} + \frac{2}{45} \right) \times \left(-\frac{5}{6} \right)$

$= \frac{37}{45} \times \left(-\frac{5}{6} \right)$

$= -\frac{37}{54}$

Order of Operations with Fractions (C)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(-\frac{2}{3}\right)-\frac{3}{8}+\left(-\frac{3}{4}\right)\right)\div\left(\frac{3}{4}\right)^2$

$\left(\left(\left(-\frac{2}{5}\right)-\frac{4}{5}\right)^2\times\frac{5}{6}\right)\div\left(-\frac{5}{8}\right)$

$\frac{1}{6}\times\left(\frac{2}{9}\div\left(\frac{2}{3}\right)^2-\frac{2}{5}\right)$

$\left(\left(\frac{1}{3}\right)^3+\left(-\frac{2}{9}\right)\right)\times\left(\left(-\frac{7}{8}\right)\div\left(-\frac{1}{3}\right)\right)$

Order of Operations with Fractions (C)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(-\frac{2}{3}\right)-\frac{3}{8}+\left(-\frac{3}{4}\right)\right)\div\left(\frac{3}{4}\right)^2$

$=\left(\left(-\frac{25}{24}\right)+\left(-\frac{3}{4}\right)\right)\div\left(\frac{3}{4}\right)^2$

$=\left(-\frac{43}{24}\right)\div\left(\frac{3}{4}\right)^2$

$=\left(-\frac{43}{24}\right)\div\frac{9}{16}$

$=-\frac{86}{27}$

$=-3\frac{5}{27}$

$\left(\left(\left(-\frac{2}{5}\right)-\frac{4}{5}\right)^2\times\frac{5}{6}\right)\div\left(-\frac{5}{8}\right)$

$=\left(\left(-\frac{6}{5}\right)^2\times\frac{5}{6}\right)\div\left(-\frac{5}{8}\right)$

$=\left(\frac{36}{25}\times\frac{5}{6}\right)\div\left(-\frac{5}{8}\right)$

$=\frac{6}{5}\div\left(-\frac{5}{8}\right)$

$=-\frac{48}{25}$

$=-1\frac{23}{25}$

$\frac{1}{6}\times\left(\frac{2}{9}\div\left(\frac{2}{3}\right)^2-\frac{2}{5}\right)$

$=\frac{1}{6}\times\left(\frac{2}{9}\div\frac{4}{9}-\frac{2}{5}\right)$

$=\frac{1}{6}\times\left(\frac{1}{2}-\frac{2}{5}\right)$

$=\frac{1}{6}\times\frac{1}{10}$

$=\frac{1}{60}$

$\left(\left(\frac{1}{3}\right)^3+\left(-\frac{2}{9}\right)\right)\times\left(\left(-\frac{7}{8}\right)\div\left(-\frac{1}{3}\right)\right)$

$=\left(\frac{1}{27}+\left(-\frac{2}{9}\right)\right)\times\left(\left(-\frac{7}{8}\right)\div\left(-\frac{1}{3}\right)\right)$

$=\left(-\frac{5}{27}\right)\times\left(\left(-\frac{7}{8}\right)\div\left(-\frac{1}{3}\right)\right)$

$=\left(-\frac{5}{27}\right)\times\frac{21}{8}$

$=-\frac{35}{72}$

Order of Operations with Fractions (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(-\frac{1}{9}\right)+\left(\frac{1}{3}\right)^{3}\div\left(\left(-\frac{1}{8}\right)-\left(-\frac{2}{9}\right)\right)$

$\left(\left(-\frac{5}{9}\right)\times\left(-\frac{2}{3}\right)^{2}+\frac{5}{9}\right)\div\left(-\frac{1}{9}\right)$

$\left(\frac{1}{9}\right)^{2}\div\left(\left(-\frac{1}{8}\right)+\frac{8}{9}-\frac{2}{3}\right)$

$\left(\frac{1}{3}\times\left(-\frac{1}{8}\right)\right)\div\left(-\frac{1}{2}\right)^{2}-\left(-\frac{8}{9}\right)$

Order of Operations with Fractions (D)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(-\frac{1}{9}\right)+\left(\frac{1}{3}\right)^3 \div \left(\left(-\frac{1}{8}\right)-\left(-\frac{2}{9}\right)\right)$

$=\left(-\frac{1}{9}\right)+\left(\frac{1}{3}\right)^3 \div \frac{7}{72}$

$=\left(-\frac{1}{9}\right)+\frac{1}{27} \div \frac{7}{72}$

$=\left(-\frac{1}{9}\right)+\frac{8}{21}$

$=\frac{17}{63}$

$\left(\left(-\frac{5}{9}\right) \times \left(-\frac{2}{3}\right)^2+\frac{5}{9}\right) \div \left(-\frac{1}{9}\right)$

$=\left(\left(-\frac{5}{9}\right) \times \frac{4}{9}+\frac{5}{9}\right) \div \left(-\frac{1}{9}\right)$

$=\left(\left(-\frac{20}{81}\right)+\frac{5}{9}\right) \div \left(-\frac{1}{9}\right)$

$=\frac{25}{81} \div \left(-\frac{1}{9}\right)$

$=-\frac{25}{9}$

$=-2\frac{7}{9}$

$\left(\frac{1}{9}\right)^2 \div \left(\left(-\frac{1}{8}\right)+\frac{8}{9}-\frac{2}{3}\right)$

$=\left(\frac{1}{9}\right)^2 \div \left(\frac{55}{72}-\frac{2}{3}\right)$

$=\left(\frac{1}{9}\right)^2 \div \frac{7}{72}$

$=\frac{1}{81} \div \frac{7}{72}$

$=\frac{8}{63}$

$\left(\frac{1}{3} \times \left(-\frac{1}{8}\right)\right) \div \left(-\frac{1}{2}\right)^2-\left(-\frac{8}{9}\right)$

$=\left(-\frac{1}{24}\right) \div \left(-\frac{1}{2}\right)^2-\left(-\frac{8}{9}\right)$

$=\left(-\frac{1}{24}\right) \div \frac{1}{4}-\left(-\frac{8}{9}\right)$

$=\left(-\frac{1}{6}\right)-\left(-\frac{8}{9}\right)$

$=\frac{13}{18}$

Order of Operations with Fractions (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(\frac{1}{4}\right)^2 \times \frac{3}{4}\right) \div \left(-\frac{1}{4}\right) - \left(-\frac{2}{5}\right)$

$\left(-\frac{4}{9}\right) \times \left(\left(\frac{3}{8}\right)^2 + \frac{3}{4}\right) \div \left(-\frac{1}{8}\right)$

$\left(-\frac{2}{9}\right) \div \left(\frac{7}{8} + \left(-\frac{2}{3}\right) - \left(\frac{1}{2}\right)^2\right)$

$\left(\left(\frac{3}{8} + \frac{5}{8}\right) \times \frac{1}{8}\right) \div \left(-\frac{2}{5}\right)^2$

Order of Operations with Fractions (E)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(\frac{1}{4}\right)^2 \times \frac{3}{4}\right) \div \left(-\frac{1}{4}\right) - \left(-\frac{2}{5}\right)$

$= \left(\frac{1}{16} \times \frac{3}{4}\right) \div \left(-\frac{1}{4}\right) - \left(-\frac{2}{5}\right)$

$= \frac{3}{64} \div \left(-\frac{1}{4}\right) - \left(-\frac{2}{5}\right)$

$= \left(-\frac{3}{16}\right) - \left(-\frac{2}{5}\right)$

$= \frac{17}{80}$

$\left(-\frac{4}{9}\right) \times \left(\left(\frac{3}{8}\right)^2 + \frac{3}{4}\right) \div \left(-\frac{1}{8}\right)$

$= \left(-\frac{4}{9}\right) \times \left(\frac{9}{64} + \frac{3}{4}\right) \div \left(-\frac{1}{8}\right)$

$= \left(-\frac{4}{9}\right) \times \frac{57}{64} \div \left(-\frac{1}{8}\right)$

$= \left(-\frac{19}{48}\right) \div \left(-\frac{1}{8}\right)$

$= \frac{19}{6}$

$= 3\frac{1}{6}$

$\left(-\frac{2}{9}\right) \div \left(\frac{7}{8} + \left(-\frac{2}{3}\right) - \left(\frac{1}{2}\right)^2\right)$

$= \left(-\frac{2}{9}\right) \div \left(\frac{7}{8} + \left(-\frac{2}{3}\right) - \frac{1}{4}\right)$

$= \left(-\frac{2}{9}\right) \div \left(\frac{5}{24} - \frac{1}{4}\right)$

$= \left(-\frac{2}{9}\right) \div \left(-\frac{1}{24}\right)$

$= \frac{16}{3}$

$= 5\frac{1}{3}$

$\left(\left(\frac{3}{8} + \frac{5}{8}\right) \times \frac{1}{8}\right) \div \left(-\frac{2}{5}\right)^2$

$= \left(1 \times \frac{1}{8}\right) \div \left(-\frac{2}{5}\right)^2$

$= \frac{1}{8} \div \left(-\frac{2}{5}\right)^2$

$= \frac{1}{8} \div \frac{4}{25}$

$= \frac{25}{32}$

Order of Operations with Fractions (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(\frac{1}{2}\right)^3 - \left(-\frac{7}{9}\right)\right) \times \left(\frac{8}{9} \div \left(-\frac{4}{9}\right)\right)$

$\left(\left(-\frac{1}{2}\right)^2 - \left(-\frac{1}{4}\right)\right) \times \left(-\frac{5}{8}\right) + \left(-\frac{2}{3}\right)$

$\left(\left(-\frac{2}{5}\right) - \left(-\frac{4}{9}\right) + \frac{3}{5}\right) \div \left(\frac{2}{3}\right)^2$

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

Order of Operations with Fractions (F)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(\frac{1}{2}\right)^3 - \left(-\frac{7}{9}\right)\right) \times \left(\frac{8}{9} \div \left(-\frac{4}{9}\right)\right)$

$= \left(\frac{1}{8} - \left(-\frac{7}{9}\right)\right) \times \left(\frac{8}{9} \div \left(-\frac{4}{9}\right)\right)$

$= \frac{65}{72} \times \left(\frac{8}{9} \div \left(-\frac{4}{9}\right)\right)$

$= \frac{65}{72} \times (-2)$

$= -\frac{65}{36}$

$= -1\frac{29}{36}$

$\left(\left(-\frac{1}{2}\right)^2 - \left(-\frac{1}{4}\right)\right) \times \left(-\frac{5}{8}\right) + \left(-\frac{2}{3}\right)$

$= \left(\frac{1}{4} - \left(-\frac{1}{4}\right)\right) \times \left(-\frac{5}{8}\right) + \left(-\frac{2}{3}\right)$

$= \frac{1}{2} \times \left(-\frac{5}{8}\right) + \left(-\frac{2}{3}\right)$

$= \left(-\frac{5}{16}\right) + \left(-\frac{2}{3}\right)$

$= -\frac{47}{48}$

$\left(\left(-\frac{2}{5}\right) - \left(-\frac{4}{9}\right) + \frac{3}{5}\right) \div \left(\frac{2}{3}\right)^2$

$= \left(\frac{2}{45} + \frac{3}{5}\right) \div \left(\frac{2}{3}\right)^2$

$= \frac{29}{45} \div \left(\frac{2}{3}\right)^2$

$= \frac{29}{45} \div \frac{4}{9}$

$= \frac{29}{20}$

$= 1\frac{9}{20}$

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

$= \left(\left(-\frac{1}{5}\right) - \left(-\frac{1}{8}\right)\right) \times \left(\frac{1}{3} + \frac{1}{5}\right)$

$= \left(-\frac{3}{40}\right) \times \left(\frac{1}{3} + \frac{1}{5}\right)$

$= \left(-\frac{3}{40}\right) \times \frac{8}{15}$

$= -\frac{1}{25}$

Order of Operations with Fractions (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(-\frac{2}{3}\right)+\frac{7}{8}\right)\div\left(\left(-\frac{5}{8}\right)^{2}\times\left(-\frac{2}{5}\right)\right)$

$\frac{7}{9}\times\left(\left(-\frac{7}{8}\right)-\frac{1}{9}\div\left(\frac{2}{3}\right)^{3}\right)$

$\left(\frac{1}{2}\right)^{2}\div\left(\frac{2}{5}-\frac{5}{8}+\frac{3}{5}\right)$

$\left(\left(-\frac{1}{2}\right)^{3}-\frac{8}{9}\times\left(-\frac{3}{8}\right)\right)\div\frac{2}{5}$

Order of Operations with Fractions (G)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(-\frac{2}{3}\right)+\frac{7}{8}\right)\div\left(\left(-\frac{5}{8}\right)^2\times\left(-\frac{2}{5}\right)\right)$

$=\frac{5}{24}\div\left(\left(-\frac{5}{8}\right)^2\times\left(-\frac{2}{5}\right)\right)$

$=\frac{5}{24}\div\left(\frac{25}{64}\times\left(-\frac{2}{5}\right)\right)$

$=\frac{5}{24}\div\left(-\frac{5}{32}\right)$

$=-\frac{4}{3}$

$=-1\frac{1}{3}$

$\frac{7}{9}\times\left(\left(-\frac{7}{8}\right)-\frac{1}{9}\div\left(\frac{2}{3}\right)^3\right)$

$=\frac{7}{9}\times\left(\left(-\frac{7}{8}\right)-\frac{1}{9}\div\frac{8}{27}\right)$

$=\frac{7}{9}\times\left(\left(-\frac{7}{8}\right)-\frac{3}{8}\right)$

$=\frac{7}{9}\times\left(-\frac{5}{4}\right)$

$=-\frac{35}{36}$

$\left(\frac{1}{2}\right)^2\div\left(\frac{2}{5}-\frac{5}{8}+\frac{3}{5}\right)$

$=\left(\frac{1}{2}\right)^2\div\left(\left(-\frac{9}{40}\right)+\frac{3}{5}\right)$

$=\left(\frac{1}{2}\right)^2\div\frac{3}{8}$

$=\frac{1}{4}\div\frac{3}{8}$

$=\frac{2}{3}$

$\left(\left(-\frac{1}{2}\right)^3-\frac{8}{9}\times\left(-\frac{3}{8}\right)\right)\div\frac{2}{5}$

$=\left(\left(-\frac{1}{8}\right)-\frac{8}{9}\times\left(-\frac{3}{8}\right)\right)\div\frac{2}{5}$

$=\left(\left(-\frac{1}{8}\right)-\left(-\frac{1}{3}\right)\right)\div\frac{2}{5}$

$=\frac{5}{24}\div\frac{2}{5}$

$=\frac{25}{48}$

Order of Operations with Fractions (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\frac{3}{8} \div \left(\left(-\frac{2}{9}\right) - \frac{7}{9} + \left(-\frac{1}{4}\right)^2\right)$

$\left(\left(-\frac{3}{5}\right) + \left(-\frac{1}{2}\right)\right) \times \left(\left(-\frac{1}{9}\right) - \left(\frac{1}{6}\right)^2\right)$

$\left(\frac{3}{5} - \left(-\frac{3}{5}\right)^2 + \left(-\frac{1}{3}\right)\right) \div \left(-\frac{4}{5}\right)$

$\left(\frac{1}{3} + \left(\frac{2}{3}\right)^3 - \left(-\frac{5}{9}\right)\right) \div \frac{4}{9}$

Order of Operations with Fractions (H)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\frac{3}{8} \div \left(\left(-\frac{2}{9}\right) - \frac{7}{9} + \underline{\left(-\frac{1}{4}\right)^2}\right)$

$= \frac{3}{8} \div \left(\underline{\left(-\frac{2}{9}\right) - \frac{7}{9}} + \frac{1}{16}\right)$

$= \frac{3}{8} \div \left(\underline{(-1) + \frac{1}{16}}\right)$

$= \underline{\frac{3}{8} \div \left(-\frac{15}{16}\right)}$

$= -\frac{2}{5}$

$\left(\underline{\left(-\frac{3}{5}\right) + \left(-\frac{1}{2}\right)}\right) \times \left(\left(-\frac{1}{9}\right) - \left(\frac{1}{6}\right)^2\right)$

$= \left(-\frac{11}{10}\right) \times \left(\left(-\frac{1}{9}\right) - \underline{\left(\frac{1}{6}\right)^2}\right)$

$= \left(-\frac{11}{10}\right) \times \left(\underline{\left(-\frac{1}{9}\right) - \frac{1}{36}}\right)$

$= \underline{\left(-\frac{11}{10}\right) \times \left(-\frac{5}{36}\right)}$

$= \frac{11}{72}$

$\left(\frac{3}{5} - \underline{\left(-\frac{3}{5}\right)^2} + \left(-\frac{1}{3}\right)\right) \div \left(-\frac{4}{5}\right)$

$= \left(\underline{\frac{3}{5} - \frac{9}{25}} + \left(-\frac{1}{3}\right)\right) \div \left(-\frac{4}{5}\right)$

$= \left(\underline{\frac{6}{25} + \left(-\frac{1}{3}\right)}\right) \div \left(-\frac{4}{5}\right)$

$= \underline{\left(-\frac{7}{75}\right) \div \left(-\frac{4}{5}\right)}$

$= \frac{7}{60}$

$\left(\frac{1}{3} + \underline{\left(\frac{2}{3}\right)^3} - \left(-\frac{5}{9}\right)\right) \div \frac{4}{9}$

$= \left(\underline{\frac{1}{3} + \frac{8}{27}} - \left(-\frac{5}{9}\right)\right) \div \frac{4}{9}$

$= \left(\underline{\frac{17}{27} - \left(-\frac{5}{9}\right)}\right) \div \frac{4}{9}$

$= \underline{\frac{32}{27} \div \frac{4}{9}}$

$= \frac{8}{3}$

$= 2\frac{2}{3}$

Order of Operations with Fractions (I)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\frac{1}{3} \times \left(\left(\frac{1}{9} \right)^2 \div \left(-\frac{8}{9} \right) + \left(-\frac{3}{8} \right) \right)$

$\left(\frac{3}{5} \right)^2 \div \left(\frac{1}{5} + \left(-\frac{4}{9} \right) \times \frac{2}{5} \right)$

$\frac{2}{9} \div \frac{1}{5} \times \left(\left(-\frac{4}{5} \right) - \left(-\frac{1}{5} \right)^2 \right)$

$\left(\frac{3}{5} - \left(\frac{1}{3} \right)^2 \right) \times \left(\frac{2}{9} + \frac{7}{9} \right)$

Order of Operations with Fractions (I)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\frac{1}{3} \times \left(\left(\frac{1}{9}\right)^2 \div \left(-\frac{8}{9}\right) + \left(-\frac{3}{8}\right) \right)$

$= \frac{1}{3} \times \left(\frac{1}{81} \div \left(-\frac{8}{9}\right) + \left(-\frac{3}{8}\right) \right)$

$= \frac{1}{3} \times \left(\left(-\frac{1}{72}\right) + \left(-\frac{3}{8}\right) \right)$

$= \frac{1}{3} \times \left(-\frac{7}{18}\right)$

$= -\frac{7}{54}$

$\left(\frac{3}{5}\right)^2 \div \left(\frac{1}{5} + \left(-\frac{4}{9}\right) \times \frac{2}{5} \right)$

$= \left(\frac{3}{5}\right)^2 \div \left(\frac{1}{5} + \left(-\frac{8}{45}\right) \right)$

$= \left(\frac{3}{5}\right)^2 \div \frac{1}{45}$

$= \frac{9}{25} \div \frac{1}{45}$

$= \frac{81}{5}$

$= 16\frac{1}{5}$

$\frac{2}{9} \div \frac{1}{5} \times \left(\left(-\frac{4}{5}\right) - \left(-\frac{1}{5}\right)^2 \right)$

$= \frac{2}{9} \div \frac{1}{5} \times \left(\left(-\frac{4}{5}\right) - \frac{1}{25} \right)$

$= \frac{2}{9} \div \frac{1}{5} \times \left(-\frac{21}{25}\right)$

$= \frac{10}{9} \times \left(-\frac{21}{25}\right)$

$= -\frac{14}{15}$

$\left(\frac{3}{5} - \left(\frac{1}{3}\right)^2 \right) \times \left(\frac{2}{9} + \frac{7}{9} \right)$

$= \left(\frac{3}{5} - \frac{1}{9} \right) \times \left(\frac{2}{9} + \frac{7}{9} \right)$

$= \frac{22}{45} \times \left(\frac{2}{9} + \frac{7}{9} \right)$

$= \frac{22}{45} \times 1$

$= \frac{22}{45}$

Order of Operations with Fractions (J)

Name: _____ Date: _____

Simplify each expression using the correct order of operations.

$\left(\frac{2}{3}-\left(-\frac{4}{5}\right)\right)\times\left(\frac{5}{8}\div\frac{1}{4}\right)^{2}$

$\left(\frac{7}{8}\div\left(-\frac{1}{2}\right)-\left(-\frac{1}{4}\right)\right)\times\left(-\frac{1}{3}\right)^{3}$

$\frac{5}{6}-\left(\frac{1}{2}\right)^{2}\times\left(\left(-\frac{3}{8}\right)\div\left(-\frac{1}{9}\right)\right)$

$\left(\frac{2}{3}\right)^{2}\div\left(\frac{1}{3}\times\left(\frac{1}{4}-\left(-\frac{1}{6}\right)\right)\right)$

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$\left(\frac{2}{3}-\left(-\frac{4}{5}\right)\right)\times\left(\frac{5}{8}\div\frac{1}{4}\right)^2$

$=\frac{22}{15}\times\left(\frac{5}{8}\div\frac{1}{4}\right)^2$

$=\frac{22}{15}\times\left(\frac{5}{2}\right)^2$

$=\frac{22}{15}\times\frac{25}{4}$

$=\frac{55}{6}$

$=9\frac{1}{6}$

$\left(\frac{7}{8}\div\left(-\frac{1}{2}\right)-\left(-\frac{1}{4}\right)\right)\times\left(-\frac{1}{3}\right)^3$

$=\left(\left(-\frac{7}{4}\right)-\left(-\frac{1}{4}\right)\right)\times\left(-\frac{1}{3}\right)^3$

$=\left(-\frac{3}{2}\right)\times\left(-\frac{1}{3}\right)^3$

$=\left(-\frac{3}{2}\right)\times\left(-\frac{1}{27}\right)$

$=\frac{1}{18}$

$\frac{5}{6}-\left(\frac{1}{2}\right)^2\times\left(\left(-\frac{3}{8}\right)\div\left(-\frac{1}{9}\right)\right)$

$=\frac{5}{6}-\left(\frac{1}{2}\right)^2\times\frac{27}{8}$

$=\frac{5}{6}-\frac{1}{4}\times\frac{27}{8}$

$=\frac{5}{6}-\frac{27}{32}$

$=-\frac{1}{96}$

$\left(\frac{2}{3}\right)^2\div\left(\frac{1}{3}\times\left(\frac{1}{4}-\left(-\frac{1}{6}\right)\right)\right)$

$=\left(\frac{2}{3}\right)^2\div\left(\frac{1}{3}\times\frac{5}{12}\right)$

$=\left(\frac{2}{3}\right)^2\div\frac{5}{36}$

$=\frac{4}{9}\div\frac{5}{36}$

$=\frac{16}{5}$

$=3\frac{1}{5}$