Order of Operations with Fractions (A)

Name: _____

Simplify each expression using the correct order of operations.

$$\left(\left(-\frac{3}{4}\right)+\left(\frac{2}{3}\right)^{3}\div\left(-\frac{8}{9}\right)-\left(-\frac{2}{3}\right)\right)\times\left(\left(-\frac{1}{8}\right)+\left(-\frac{4}{5}\right)\right)$$

$$\left(\frac{1}{6}-\frac{2}{3}+\left(-\frac{1}{2}\right)\right)^{2}\times\left(\frac{3}{4}\div\frac{1}{4}+\frac{3}{8}\right)$$

Order of Operations with Fractions (A)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(-\frac{3}{4}\right)+\left(\frac{2}{3}\right)^{3}\div\left(-\frac{8}{9}\right)-\left(-\frac{2}{3}\right)\right)\times\left(\left(-\frac{1}{8}\right)+\left(-\frac{4}{5}\right)\right)$$

$$=\left(\left(-\frac{3}{4}\right)+\frac{8}{27}\div\left(-\frac{8}{9}\right)-\left(-\frac{2}{3}\right)\right)\times\left(\left(-\frac{1}{8}\right)+\left(-\frac{4}{5}\right)\right)$$

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

$$=\left(\left(-\frac{13}{12}\right)-\left(-\frac{2}{3}\right)\right)\times\left(\left(-\frac{1}{8}\right)+\left(-\frac{4}{5}\right)\right)$$

$$=\left(-\frac{5}{12}\right)\times\left(\left(-\frac{1}{8}\right)+\left(-\frac{4}{5}\right)\right)$$

$$=\left(-\frac{5}{12}\right)\times\left(-\frac{37}{40}\right)$$

$$=\frac{37}{96}$$

$$\left(\frac{1}{6}-\frac{2}{3}+\left(-\frac{1}{2}\right)\right)^{2}\times\left(\frac{3}{4}\div\frac{1}{4}+\frac{3}{8}\right)$$

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

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

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

$$=(-1)^{2}\times\frac{27}{8}$$

$$=1\times\frac{27}{8}$$

$$=\frac{27}{8}$$

$$=3\frac{3}{8}$$

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Order of Operations with Fractions (B)

Name: _____   Date: _____

Simplify each expression using the correct order of operations.

$$\left(\frac{8}{9} \div \left(-\frac{1}{9}\right)\right) \times \frac{1}{3} - \left(-\frac{1}{4}\right) + \left(\frac{1}{2}\right)^2 - \left(-\frac{1}{5}\right)$$

$$\left(\left(-\frac{2}{3}\right) \times \left(-\frac{3}{4}\right)^2\right) \div \left(\frac{2}{3} - \left(-\frac{5}{9}\right) + \frac{1}{6} - \left(-\frac{7}{9}\right)\right)$$

Order of Operations with Fractions (B)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$\left(\frac{8}{9} \div \left(-\frac{1}{9}\right)\right) \times \frac{1}{3} - \left(-\frac{1}{4}\right) + \left(\frac{1}{2}\right)^2 - \left(-\frac{1}{5}\right)$

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

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

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

$= \left(-\frac{29}{12}\right) + \frac{1}{4} - \left(-\frac{1}{5}\right)$

$= \left(-\frac{13}{6}\right) - \left(-\frac{1}{5}\right)$

$= -\frac{59}{30}$

$= -1\frac{29}{30}$

$\left(\left(-\frac{2}{3}\right) \times \left(-\frac{3}{4}\right)^2\right) \div \left(\frac{2}{3} - \left(-\frac{5}{9}\right) + \frac{1}{6} - \left(-\frac{7}{9}\right)\right)$

$= \left(\left(-\frac{2}{3}\right) \times \frac{9}{16}\right) \div \left(\frac{2}{3} - \left(-\frac{5}{9}\right) + \frac{1}{6} - \left(-\frac{7}{9}\right)\right)$

$= \left(-\frac{3}{8}\right) \div \left(\frac{2}{3} - \left(-\frac{5}{9}\right) + \frac{1}{6} - \left(-\frac{7}{9}\right)\right)$

$= \left(-\frac{3}{8}\right) \div \left(\frac{11}{9} + \frac{1}{6} - \left(-\frac{7}{9}\right)\right)$

$= \left(-\frac{3}{8}\right) \div \left(\frac{25}{18} - \left(-\frac{7}{9}\right)\right)$

$= \left(-\frac{3}{8}\right) \div \frac{13}{6}$

$= -\frac{9}{52}$

| Order of Operations with Fractions (C) |

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(\frac{1}{4}\right)^3 - \left(-\frac{1}{4}\right)^3 + \left(-\frac{1}{2}\right)\right) \times \frac{5}{6} \div \frac{3}{8}$$

$$\left(\left(-\frac{1}{3}\right) + \left(-\frac{5}{6}\right)\right) \times \left(-\frac{3}{4}\right) \div \left(\left(-\frac{1}{8}\right)^2 - \left(\frac{3}{4}\right)^3\right)$$

Order of Operations with Fractions (C)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$\left(\left(\frac{1}{4}\right)^3 - \left(-\frac{1}{4}\right)^3 + \left(-\frac{1}{2}\right)\right) \times \frac{5}{6} \div \frac{3}{8}$

$= \left(\frac{1}{64} - \left(-\frac{1}{4}\right)^3 + \left(-\frac{1}{2}\right)\right) \times \frac{5}{6} \div \frac{3}{8}$

$= \left(\frac{1}{64} - \left(-\frac{1}{64}\right) + \left(-\frac{1}{2}\right)\right) \times \frac{5}{6} \div \frac{3}{8}$

$= \left(\frac{1}{32} + \left(-\frac{1}{2}\right)\right) \times \frac{5}{6} \div \frac{3}{8}$

$= \left(-\frac{15}{32}\right) \times \frac{5}{6} \div \frac{3}{8}$

$= \left(-\frac{25}{64}\right) \div \frac{3}{8}$

$= -\frac{25}{24}$

$= -1\frac{1}{24}$

$\left(\left(-\frac{1}{3}\right) + \left(-\frac{5}{6}\right)\right) \times \left(-\frac{3}{4}\right) \div \left(\left(-\frac{1}{8}\right)^2 - \left(\frac{3}{4}\right)^3\right)$

$= \left(-\frac{7}{6}\right) \times \left(-\frac{3}{4}\right) \div \left(\left(-\frac{1}{8}\right)^2 - \left(\frac{3}{4}\right)^3\right)$

$= \left(-\frac{7}{6}\right) \times \left(-\frac{3}{4}\right) \div \left(\frac{1}{64} - \left(\frac{3}{4}\right)^3\right)$

$= \left(-\frac{7}{6}\right) \times \left(-\frac{3}{4}\right) \div \left(\frac{1}{64} - \frac{27}{64}\right)$

$= \left(-\frac{7}{6}\right) \times \left(-\frac{3}{4}\right) \div \left(-\frac{13}{32}\right)$

$= \frac{7}{8} \div \left(-\frac{13}{32}\right)$

$= -\frac{28}{13}$

$= -2\frac{2}{13}$

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| Order of Operations with Fractions (D) |

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(-\frac{1}{3}\right)-\left(-\frac{8}{9}\right)+\left(-\frac{5}{6}\right)\right)\div\left(\frac{5}{9}\right)^{2}\times\left(\left(-\frac{2}{9}\right)+\left(-\frac{1}{4}\right)\right)$$

$$\left(-\frac{3}{4}\right)^{2}\div\left(\left(-\frac{1}{2}\right)^{2}-\left(-\frac{4}{9}\right)+\frac{5}{9}\times\frac{5}{8}\right)$$

Order of Operations with Fractions (D)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(-\frac{1}{3}\right)-\left(-\frac{8}{9}\right)+\left(-\frac{5}{6}\right)\right)\div\left(\frac{5}{9}\right)^2\times\left(\left(-\frac{2}{9}\right)+\left(-\frac{1}{4}\right)\right)$$

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

$$=\left(-\frac{5}{18}\right)\div\left(\frac{5}{9}\right)^2\times\left(\left(-\frac{2}{9}\right)+\left(-\frac{1}{4}\right)\right)$$

$$=\left(-\frac{5}{18}\right)\div\left(\frac{5}{9}\right)^2\times\left(-\frac{17}{36}\right)$$

$$=\left(-\frac{5}{18}\right)\div\frac{25}{81}\times\left(-\frac{17}{36}\right)$$

$$=\left(-\frac{9}{10}\right)\times\left(-\frac{17}{36}\right)$$

$$=\frac{17}{40}$$

$$\left(-\frac{3}{4}\right)^2\div\left(\left(-\frac{1}{2}\right)^2-\left(-\frac{4}{9}\right)+\frac{5}{9}\times\frac{5}{8}\right)$$

$$=\left(-\frac{3}{4}\right)^2\div\left(\frac{1}{4}-\left(-\frac{4}{9}\right)+\frac{5}{9}\times\frac{5}{8}\right)$$

$$=\left(-\frac{3}{4}\right)^2\div\left(\frac{1}{4}-\left(-\frac{4}{9}\right)+\frac{25}{72}\right)$$

$$=\left(-\frac{3}{4}\right)^2\div\left(\frac{25}{36}+\frac{25}{72}\right)$$

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

$$=\frac{9}{16}\div\frac{25}{24}$$

$$=\frac{27}{50}$$

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Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(\frac{1}{2}\right)^3 + \left(-\frac{3}{8}\right) - \left(-\frac{1}{2}\right)\right) \times \left(\left(-\frac{4}{9}\right) \div \frac{1}{6}\right)^2$$

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

Order of Operations with Fractions (E)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(\left(\frac{1}{2}\right)^3 + \left(-\frac{3}{8}\right) - \left(-\frac{1}{2}\right)\right) \times \left(\left(-\frac{4}{9}\right) \div \frac{1}{6}\right)^2$$

$$= \left(\frac{1}{8} + \left(-\frac{3}{8}\right) - \left(-\frac{1}{2}\right)\right) \times \left(\left(-\frac{4}{9}\right) \div \frac{1}{6}\right)^2$$

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

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

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

$$= \frac{1}{4} \times \frac{64}{9}$$

$$= \frac{16}{9}$$

$$= 1\frac{7}{9}$$

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

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

$$= \frac{10}{9} \times \left(-\frac{2}{5}\right)^2 - \frac{2}{9} + \left(-\frac{4}{5}\right)$$

$$= \frac{10}{9} \times \frac{4}{25} - \frac{2}{9} + \left(-\frac{4}{5}\right)$$

$$= \frac{8}{45} - \frac{2}{9} + \left(-\frac{4}{5}\right)$$

$$= \left(-\frac{2}{45}\right) + \left(-\frac{4}{5}\right)$$

$$= -\frac{38}{45}$$

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(-\frac{3}{5}\right)^2 - \left(\frac{3}{5}\right)^2 \times \left(-\frac{4}{9}\right) \div \left(\frac{5}{8} + \frac{7}{8}\right)$$

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

Order of Operations with Fractions (F)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

$$\left(-\frac{3}{5}\right)^2 - \left(\frac{3}{5}\right)^2 \times \left(-\frac{4}{9}\right) \div \left(\frac{5}{8} + \frac{7}{8}\right)$$

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

$$= \frac{9}{25} - \left(\frac{3}{5}\right)^2 \times \left(-\frac{4}{9}\right) \div \frac{3}{2}$$

$$= \frac{9}{25} - \frac{9}{25} \times \left(-\frac{4}{9}\right) \div \frac{3}{2}$$

$$= \frac{9}{25} - \left(-\frac{4}{25}\right) \div \frac{3}{2}$$

$$= \frac{9}{25} - \left(-\frac{8}{75}\right)$$

$$= \frac{7}{15}$$

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

$$= \left(\frac{1}{5}\right)^2 - \frac{3}{4} \times \left(\frac{4}{25} \div \left(-\frac{2}{3}\right) + \frac{4}{5}\right)$$

$$= \left(\frac{1}{5}\right)^2 - \frac{3}{4} \times \left(\left(-\frac{6}{25}\right) + \frac{4}{5}\right)$$

$$= \left(\frac{1}{5}\right)^2 - \frac{3}{4} \times \frac{14}{25}$$

$$= \frac{1}{25} - \frac{3}{4} \times \frac{14}{25}$$

$$= \frac{1}{25} - \frac{21}{50}$$

$$= -\frac{19}{50}$$

Name: _____

Simplify each expression using the correct order of operations.

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

$$\frac{4}{5} \times \left(\left(-\frac{2}{3} \right) + \left(-\frac{5}{6} \right)^2 - \left(-\frac{1}{4} \right) \right) \div \left(-\frac{2}{5} \right) \times \frac{5}{9}$$

Order of Operations with Fractions (G)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$= \frac{4}{5} \div \left(\frac{1}{15} - \left(-\frac{1}{3} \right) + \frac{1}{5} \right)^2 \times \frac{3}{4}$

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

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

$= \frac{4}{5} \div \frac{9}{25} \times \frac{3}{4}$

$= \frac{20}{9} \times \frac{3}{4}$

$= \frac{5}{3}$

$= 1\frac{2}{3}$

$\frac{4}{5} \times \left(\left(-\frac{2}{3} \right) + \left(-\frac{5}{6} \right)^2 - \left(-\frac{1}{4} \right) \right) \div \left(-\frac{2}{5} \right) \times \frac{5}{9}$

$= \frac{4}{5} \times \left(\left(-\frac{2}{3} \right) + \frac{25}{36} - \left(-\frac{1}{4} \right) \right) \div \left(-\frac{2}{5} \right) \times \frac{5}{9}$

$= \frac{4}{5} \times \left(\frac{1}{36} - \left(-\frac{1}{4} \right) \right) \div \left(-\frac{2}{5} \right) \times \frac{5}{9}$

$= \frac{4}{5} \times \frac{5}{18} \div \left(-\frac{2}{5} \right) \times \frac{5}{9}$

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

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

$= -\frac{25}{81}$

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Order of Operations with Fractions (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\left(\left(-\frac{2}{5}\right) \div \left(\frac{3}{5}\right)^2 \times \left(\frac{4}{9} + \left(-\frac{2}{3}\right) - \frac{7}{9}\right)\right) \div \frac{3}{8}$$

Order of Operations with Fractions (H)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$= \left(\frac{4}{5} + \frac{1}{25} \div \left(-\frac{2}{5}\right) - \left(-\frac{1}{4}\right)\right) \times \left(-\frac{2}{3}\right)^2$$

$$= \left(\frac{4}{5} + \left(-\frac{1}{10}\right) - \left(-\frac{1}{4}\right)\right) \times \left(-\frac{2}{3}\right)^2$$

$$= \left(\frac{7}{10} - \left(-\frac{1}{4}\right)\right) \times \left(-\frac{2}{3}\right)^2$$

$$= \frac{19}{20} \times \left(-\frac{2}{3}\right)^2$$

$$= \frac{19}{20} \times \frac{4}{9}$$

$$= \frac{19}{45}$$

$$\left(\left(-\frac{2}{5}\right) \div \left(\frac{3}{5}\right)^2 \times \left(\frac{4}{9} + \left(-\frac{2}{3}\right) - \frac{7}{9}\right)\right) \div \frac{3}{8}$$

$$= \left(\left(-\frac{2}{5}\right) \div \left(\frac{3}{5}\right)^2 \times \left(\left(-\frac{2}{9}\right) - \frac{7}{9}\right)\right) \div \frac{3}{8}$$

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

$$= \left(\left(-\frac{2}{5}\right) \div \frac{9}{25} \times (-1)\right) \div \frac{3}{8}$$

$$= \left(\left(-\frac{10}{9}\right) \times (-1)\right) \div \frac{3}{8}$$

$$= \frac{10}{9} \div \frac{3}{8}$$

$$= \frac{80}{27}$$

$$= 2\frac{26}{27}$$

Math-Drills.com

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

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

Order of Operations with Fractions (I)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$= \left(\frac{9}{16} + \left(-\frac{3}{4}\right)^2 \div \left(-\frac{2}{5}\right)\right) \times \left(-\frac{2}{9}\right) - \left(-\frac{3}{5}\right)$$

$$= \left(\frac{9}{16} + \frac{9}{16} \div \left(-\frac{2}{5}\right)\right) \times \left(-\frac{2}{9}\right) - \left(-\frac{3}{5}\right)$$

$$= \left(\frac{9}{16} + \left(-\frac{45}{32}\right)\right) \times \left(-\frac{2}{9}\right) - \left(-\frac{3}{5}\right)$$

$$= \left(-\frac{27}{32}\right) \times \left(-\frac{2}{9}\right) - \left(-\frac{3}{5}\right)$$

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

$$= \frac{63}{80}$$

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

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

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

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

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

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

$$= -\frac{1}{72}$$

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Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$\left(\frac{3}{8} - \left(-\frac{7}{9}\right) + \left(-\frac{7}{8}\right) \div \frac{7}{9} \times \left(-\frac{5}{9}\right)\right) \times \left(-\frac{1}{4}\right)^3$$

Order of Operations with Fractions (J)

Name: _____

Date: _____

Simplify each expression using the correct order of operations.

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

$$= \left(\left(-\frac{5}{9}\right) \div \frac{4}{9}\right) \times \left(\left(-\frac{1}{2}\right) + \frac{5}{8} - \frac{5}{9} - \left(-\frac{3}{8}\right)\right)$$

$$= \left(-\frac{5}{4}\right) \times \left(\left(-\frac{1}{2}\right) + \frac{5}{8} - \frac{5}{9} - \left(-\frac{3}{8}\right)\right)$$

$$= \left(-\frac{5}{4}\right) \times \left(\frac{1}{8} - \frac{5}{9} - \left(-\frac{3}{8}\right)\right)$$

$$= \left(-\frac{5}{4}\right) \times \left(\left(-\frac{31}{72}\right) - \left(-\frac{3}{8}\right)\right)$$

$$= \left(-\frac{5}{4}\right) \times \left(-\frac{1}{18}\right)$$

$$= \frac{5}{72}$$

$$\left(\frac{3}{8} - \left(-\frac{7}{9}\right) + \left(-\frac{7}{8}\right) \div \frac{7}{9} \times \left(-\frac{5}{9}\right)\right) \times \left(-\frac{1}{4}\right)^3$$

$$= \left(\frac{3}{8} - \left(-\frac{7}{9}\right) + \left(-\frac{9}{8}\right) \times \left(-\frac{5}{9}\right)\right) \times \left(-\frac{1}{4}\right)^3$$

$$= \left(\frac{3}{8} - \left(-\frac{7}{9}\right) + \frac{5}{8}\right) \times \left(-\frac{1}{4}\right)^3$$

$$= \left(\frac{83}{72} + \frac{5}{8}\right) \times \left(-\frac{1}{4}\right)^3$$

$$= \frac{16}{9} \times \left(-\frac{1}{4}\right)^3$$

$$= \frac{16}{9} \times \left(-\frac{1}{64}\right)$$

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

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