Order of Operations with Fractions (A)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Order of Operations with Fractions (B)

Name: _____ Date: _____

Solve 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: _____

Solve 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: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Order of Operations with Fractions (D)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

$=\frac{17}{40}$

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

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

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

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

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

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

$=\frac{27}{50}$

Order of Operations with Fractions (E)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Order of Operations with Fractions (F)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

$= \frac{7}{15}$

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

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

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

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

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

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

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

Order of Operations with Fractions (G)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

$= \frac{5}{3}$

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

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

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

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

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

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

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

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

Order of Operations with Fractions (H)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Order of Operations with Fractions (I)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

$$\left(\left(\frac{3}{4}\right)^2+\left(-\frac{3}{4}\right)^2\div\left(-\frac{2}{5}\right)\right)\times\left(-\frac{2}{9}\right)-\left(-\frac{3}{5}\right)$$
$$=\left(\frac{9}{16}+\left(-\frac{3}{4}\right)^2\div\left(-\frac{2}{5}\right)\right)\times\left(-\frac{2}{9}\right)-\left(-\frac{3}{5}\right)$$
$$=\left(\frac{9}{16}+\frac{9}{16}\div\left(-\frac{2}{5}\right)\right)\times\left(-\frac{2}{9}\right)-\left(-\frac{3}{5}\right)$$
$$=\left(\frac{9}{16}+\left(-\frac{45}{32}\right)\right)\times\left(-\frac{2}{9}\right)-\left(-\frac{3}{5}\right)$$
$$=\left(-\frac{27}{32}\right)\times\left(-\frac{2}{9}\right)-\left(-\frac{3}{5}\right)$$
$$=\frac{3}{16}-\left(-\frac{3}{5}\right)$$
$$=\frac{63}{80}$$

$$\left(-\frac{3}{8}\right)\times\left(\left(-\frac{1}{3}\right)\div\frac{1}{3}+\left(-\frac{2}{3}\right)^2-\left(-\frac{8}{9}\right)\right)^3$$
$$=\left(-\frac{3}{8}\right)\times\left(\left(-\frac{1}{3}\right)\div\frac{1}{3}+\frac{4}{9}-\left(-\frac{8}{9}\right)\right)^3$$
$$=\left(-\frac{3}{8}\right)\times\left((-1)+\frac{4}{9}-\left(-\frac{8}{9}\right)\right)^3$$
$$=\left(-\frac{3}{8}\right)\times\left(\left(-\frac{5}{9}\right)-\left(-\frac{8}{9}\right)\right)^3$$
$$=\left(-\frac{3}{8}\right)\times\left(\frac{1}{3}\right)^3$$
$$=\left(-\frac{3}{8}\right)\times\frac{1}{27}$$
$$=-\frac{1}{72}$$

Order of Operations with Fractions (J)

Name: _____ Date: _____

Solve 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: _____

Solve each expression using the correct order of operations.

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

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

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

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

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

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

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

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

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

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

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

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

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

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