

Rational Numbers ReviewDeveloping

Order the Like Fractions from Least to Greatest

1) $\frac{8}{3}, -\frac{7}{3}, \frac{2}{3}, -\frac{4}{3}, \frac{5}{3}$ $-\frac{7}{3}, -\frac{4}{3}, \frac{2}{3}, \frac{5}{3}, \frac{8}{3}$	2) $\frac{9}{7}, -\frac{2}{7}, -\frac{4}{7}, \frac{3}{7}, \frac{8}{7}$ $-\frac{4}{7}, -\frac{2}{7}, \frac{3}{7}, \frac{8}{7}, \frac{9}{7}$
3) $\frac{15}{6}, -\frac{11}{6}, \frac{19}{6}, \frac{17}{6}, -\frac{13}{6}$ $-\frac{13}{6}, -\frac{11}{6}, \frac{15}{6}, \frac{17}{6}, \frac{19}{6}$	4) $\frac{5}{9}, \frac{2}{9}, -\frac{5}{9}, -\frac{4}{9}, \frac{8}{9}$ $-\frac{5}{9}, -\frac{4}{9}, \frac{2}{9}, \frac{5}{9}, \frac{8}{9}$
5) $-\frac{8}{5}, \frac{1}{5}, -\frac{2}{5}, -\frac{4}{5}, -\frac{6}{5}$ $-\frac{8}{5}, -\frac{6}{5}, -\frac{4}{5}, -\frac{2}{5}, \frac{1}{5}$	6) $-\frac{17}{2}, -\frac{23}{2}, \frac{15}{2}, \frac{27}{2}, \frac{11}{2}$ $-\frac{23}{2}, -\frac{17}{2}, \frac{11}{2}, \frac{15}{2}, \frac{27}{2}$
7) $\frac{9}{8}, -\frac{7}{8}, \frac{2}{8}, -\frac{2}{8}, \frac{5}{8}$ $-\frac{7}{8}, -\frac{2}{8}, \frac{2}{8}, \frac{5}{8}, \frac{9}{8}$	8) $\frac{3}{10}, -\frac{3}{10}, \frac{7}{10}, -\frac{7}{10}, -\frac{9}{10}$ $-\frac{9}{10}, -\frac{7}{10}, -\frac{3}{10}, \frac{3}{10}, \frac{7}{10}$
9) $\frac{8}{13}, -\frac{6}{13}, \frac{2}{13}, \frac{5}{13}, \frac{4}{13}$ $-\frac{6}{13}, \frac{2}{13}, \frac{4}{13}, \frac{5}{13}, \frac{8}{13}$	10) $-\frac{1}{4}, -\frac{9}{4}, -\frac{3}{4}, -\frac{5}{4}, \frac{7}{4}$ $-\frac{9}{4}, -\frac{5}{4}, -\frac{3}{4}, -\frac{1}{4}, \frac{7}{4}$
11) $-\frac{2}{3}, -\frac{8}{3}, \frac{2}{3}, -\frac{4}{3}, \frac{8}{3}$ $-\frac{8}{3}, -\frac{4}{3}, -\frac{2}{3}, \frac{2}{3}, \frac{8}{3}$	12) $-\frac{7}{15}, \frac{7}{15}, -\frac{8}{15}, \frac{8}{15}, \frac{2}{15}$ $-\frac{8}{15}, -\frac{7}{15}, \frac{2}{15}, \frac{7}{15}, \frac{8}{15}$

Name : _____

Comparing Decimals

Compare each pair of decimals using the symbols $>$, $<$ or $=$.

1) $43.5 > 43.12$

2) $-18.49 > -19.9$

3) $-21.75 < -21.7$

4) $4.63 > 4.3$

5) $-5.17 > -5.4$

6) $-10.3 > -10.35$

7) $47.31 > 39.73$

8) $25.6 < 25.9$

9) $-24.5 > -24.51$

10) $-7.7 < -6.95$

11) $36.62 > 36.4$

12) $-29.3 < -29.27$

13) $12.7 < 12.8$

14) $-6.1 < 6.1$

15) $-40.2 > -40.24$

16) $28.5 > 28.3$

Rational Numbers Review

Find each sum.

$$1) \left(-\frac{6}{5}\right) + \frac{3}{2} = \frac{-6 \times 2}{5 \times 2} + \frac{3 \times 5}{2 \times 5} = \frac{-12}{10} + \frac{15}{10}$$

$$= \boxed{\frac{3}{10}}$$

$$2) \frac{1}{2} + \left(-3\frac{2}{5}\right) = \frac{1 \times 5}{2 \times 5} + \frac{-17 \times 2}{5 \times 2}$$

$$= \frac{5}{10} + \frac{-34}{10}$$

$$= \frac{-29}{10} = \boxed{-2\frac{9}{10}}$$

Find each difference.

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

$$= \boxed{-\frac{1}{6}}$$

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

$$= \frac{-9}{6} + \frac{2}{6}$$

$$= \frac{-7}{6} = \boxed{-1\frac{1}{6}}$$

Find each sum.

$$5) 4.9 + (-3) = \boxed{1.9}$$

$$\begin{array}{r} 4.9 \\ -3.0 \\ \hline 1.9 \end{array}$$

$$6) (-3.8) + 1.1 = \boxed{-2.7}$$

$$\begin{array}{r} 3.8 \\ -1.1 \\ \hline 2.7 \end{array}$$

Find each difference.

$$7) (-2.4) + (+2.9) = \boxed{0.5}$$

$$\begin{array}{r} 2.9 \\ -2.4 \\ \hline 0.5 \end{array}$$

$$8) (-3.64) - 4.5 = \boxed{-8.14}$$

$$\begin{array}{r} 3.64 \\ +4.50 \\ \hline 8.14 \end{array}$$

Find each product.

$$9) \left(-\frac{5}{4}\right)\left(\frac{3}{4}\right) = \boxed{-\frac{15}{16}}$$

$$10) \left(-2\frac{3}{4}\right)\left(\frac{1}{2}\right) = -\frac{11}{4} \times \frac{1}{2}$$

$$= \frac{-11}{8} = \boxed{-1\frac{3}{8}}$$

Find each quotient.

$$11) \frac{1}{3} \div \frac{3}{2} = \frac{1}{3} \times \frac{2}{3} \\ = \boxed{\frac{2}{9}}$$

$$12) 2\frac{2}{5} \div \frac{4}{3} = \frac{\cancel{12}^3}{5} \times \frac{3}{\cancel{4}_1} \\ = \frac{9}{5} = \boxed{1\frac{4}{5}}$$

Find each product.

$$13) (-1.7)(-2.5) = \boxed{4.25}$$
$$\begin{array}{r} 1.7 \\ \times 2.5 \\ \hline 85 \\ + 340 \\ \hline 4.25 \end{array}$$

$$14) (-1.8)(1.3) = \boxed{-2.34}$$
$$\begin{array}{r} 1.8 \\ \times 1.3 \\ \hline 54 \\ + 180 \\ \hline 2.34 \end{array}$$

Find each quotient.

$$15) 0.8 \div -2 = \boxed{-0.4}$$
$$2 \overline{) 0.8} \\ \underline{-8} \\ 0$$

$$16) -0.91 \div 0.5 = \boxed{-1.82}$$
$$5 \overline{) 9.10} \\ \underline{-5} \downarrow \\ 41 \\ \underline{-40} \downarrow \\ 10 \\ \underline{-10} \\ 0$$

Evaluate each expression.

$$17) \frac{3}{4} + \frac{+3}{2} \times -1\frac{1}{4} = \frac{3}{4} + \frac{3}{2} \times -\frac{5}{4} \\ = \frac{3}{4} \times \frac{2}{2} + \frac{-15}{8} \\ = \frac{6}{8} + \frac{-15}{8} = \frac{-9}{8} = \boxed{-1\frac{1}{8}}$$

$$18) \left(\frac{3}{2} - \frac{1}{2}\right) \div -1\frac{1}{2} = \left(\frac{3}{2} - \frac{1}{2}\right) \div -\frac{3}{2} \\ = \frac{2}{2} \times \frac{-2}{3} = \boxed{-\frac{2}{3}}$$

$$19) (0.7 - 3) \times -3.4 = -2.3 \times (-3.4) \\ = \boxed{7.82}$$

$$\begin{array}{r} 2.3 \\ \times 3.4 \\ \hline 92 \\ + 690 \\ \hline 7.82 \end{array}$$

$$20) (-2.3 - 2.6)^2 = (-4.9)^2 \\ = \boxed{24.01}$$

$$\begin{array}{r} 4.9 \\ \times 4.9 \\ \hline 441 \\ + 4410 \\ \hline 24.01 \end{array}$$

Math 9

KEY

Rational Numbers Review

Proficient

Order the Unlike Fractions from Greatest to Least

<p>1) $\frac{5}{6}, -\frac{1 \times 7}{4 \times 7}, -\frac{3 \times 4}{7 \times 4}, \frac{2 \times 2}{3 \times 2}$</p> <p>$-\frac{3}{7}, -\frac{1}{4}, \frac{2}{3}, \frac{5}{6}$</p>	<p>2) $\frac{3}{5}, -\frac{2}{3}, -\frac{1}{2}, \frac{3}{4}$</p> <p>$-\frac{2}{3}, -\frac{1}{2}, \frac{3}{5}, \frac{3}{4}$</p>
<p>3) $-\frac{1}{9}, -\frac{5}{6}, -\frac{1}{2}, \frac{7}{3}$</p> <p>$-\frac{5}{6}, -\frac{1}{2}, -\frac{1}{9}, \frac{7}{3}$</p>	<p>4) $\frac{3}{10}, -\frac{5}{4}, -\frac{2}{5}, -\frac{1}{2}$</p> <p>$-\frac{5}{4}, -\frac{1}{2}, -\frac{2}{5}, \frac{3}{10}$</p>
<p>5) $\frac{2 \times 7}{11 \times 7}, -\frac{3}{8}, \frac{1 \times 11}{7 \times 11}, \frac{5}{12}$</p> <p>$-\frac{3}{8}, \frac{1}{7}, \frac{2}{11}, \frac{5}{12}$</p>	<p>6) $\frac{5}{6}, \frac{1}{2}, \frac{3}{4}, -\frac{7}{8}$</p> <p>$-\frac{7}{8}, \frac{1}{2}, \frac{3}{4}, \frac{5}{6}$</p>
<p>7) $-\frac{2 \times 2}{5 \times 2}, -\frac{3}{10}, \frac{1}{2}, \frac{1}{4}$</p> <p>$-\frac{2}{5}, -\frac{3}{10}, \frac{1}{4}, \frac{1}{2}$</p>	<p>8) $-\frac{9}{16}, \frac{5}{6}, -\frac{3 \times 2}{8 \times 2}, \frac{5}{12}$</p> <p>$-\frac{9}{16}, -\frac{3}{8}, \frac{5}{12}, \frac{5}{6}$</p>
<p>9) $\frac{3}{2}, \frac{7}{9}, \frac{11}{18}, -\frac{7}{6}$</p> <p>$-\frac{7}{6}, \frac{11}{18}, \frac{7}{9}, \frac{3}{2}$</p>	<p>10) $\frac{3}{4}, \frac{1}{6}, -\frac{1}{5}, -\frac{2}{3}$</p> <p>$-\frac{2}{3}, -\frac{1}{5}, \frac{1}{6}, \frac{3}{4}$</p>
<p>11) $-\frac{5}{14}, -\frac{1}{12}, \frac{9}{10}, \frac{7}{16}$</p> <p>$-\frac{5}{14}, -\frac{1}{12}, \frac{7}{16}, \frac{9}{10}$</p>	<p>12) $-\frac{7}{2}, -\frac{7}{3}, \frac{7}{4}, \frac{7}{5}$</p> <p>$-\frac{7}{2}, -\frac{7}{3}, \frac{7}{5}, \frac{7}{4}$</p>

Name : _____

Comparing Decimals

Compare each pair of decimals using the symbols $>$, $<$ or $=$.

1) 11.038 $>$ 11.03

2) -39.26 $<$ -39.16

3) 1.22 $<$ 1.221

4) 25.001 $<$ 25.01

5) -30.359 $<$ -29.349

6) -3.43 $<$ -3.425

7) 6.44 $>$ 6.41

8) 17.612 $<$ 17.62

9) 33.101 $<$ 33.201

10) 4.298 $>$ -4.298

11) -8.012 $>$ -8.03

12) -40.9 $>$ -50.9

13) -12.7 $=$ -12.7

14) -38.01 $<$ -38.001

15) 49.28 $<$ 49.82

16) 7.34 $<$ 7.343

Rational Numbers Review

Evaluate each expression.

$$1) 1\frac{7}{8} - 4\frac{1}{2} = \frac{15}{8} - \frac{9 \times 4}{2 \times 4}$$

$$= \frac{15}{8} - \frac{36}{8}$$

$$= -\frac{21}{8} = \boxed{-2\frac{5}{8}}$$

$$2) 2\frac{2}{3} - \frac{5}{7} = \frac{8 \times 7}{3 \times 7} - \frac{5 \times 3}{7 \times 3}$$

$$= \frac{56}{21} - \frac{15}{21}$$

$$= \frac{41}{21} = \boxed{1\frac{20}{21}}$$

$$3) \frac{3 \times 3}{5 \times 3} - \frac{2 \times 15}{1 \times 15} - \frac{1 \times 5}{3 \times 5} = \frac{9}{15} - \frac{30}{15} - \frac{5}{15}$$

$$= -\frac{26}{15} = \boxed{-1\frac{11}{15}}$$

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

$$= -\frac{13}{4} = \boxed{-3\frac{1}{4}}$$

$$5) (-8.14) + 9.2 = \boxed{1.06}$$

$$\begin{array}{r} 9.20 \\ -8.14 \\ \hline 1.06 \end{array}$$

$$6) (-1.9) + (+2.2) = \boxed{0.3}$$

$$\begin{array}{r} 2.2 \\ -1.9 \\ \hline 0.3 \end{array}$$

$$7) (-2.5) + 3.8 + 5 = 1.3 + 5$$

$$\begin{array}{r} 3.8 \\ -2.5 \\ \hline 1.3 \end{array} = \boxed{6.3}$$

$$8) (-2.76) + (-1.9) - 2.3 = -4.66 - 2.3$$

$$\begin{array}{r} 2.76 \\ + 1.90 \\ \hline 4.66 \end{array} \quad \begin{array}{r} 4.66 \\ + 2.30 \\ \hline 6.96 \end{array} = \boxed{-6.96}$$

Find each product.

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

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

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

Find each quotient.

$$\begin{aligned} 11) \frac{5}{3} \div -1\frac{1}{3} &= \frac{5}{3} \div -\frac{4}{3} \\ &= \frac{5}{\cancel{3}^1} \times \frac{\cancel{3}^1}{4} \\ &= -\frac{5}{4} = \boxed{-1\frac{1}{4}} \end{aligned}$$

$$\begin{aligned} 12) \frac{4}{3} \div -1\frac{3}{7} &= \frac{4}{3} \div -\frac{10}{7} \\ &= \frac{\cancel{4}^2}{3} \times \frac{-7}{\cancel{10}^5} \\ &= \boxed{-\frac{14}{15}} \end{aligned}$$

Find each product.

$$\begin{aligned} 13) (-4.3)(-3.6) &= \boxed{15.48} \\ &\begin{array}{r} 4.3 \\ \times 3.6 \\ \hline 258 \\ +1290 \\ \hline 15.48 \end{array} \end{aligned}$$

$$\begin{aligned} 14) (6.22)(-3.2) &= \boxed{-19.904} \\ &\begin{array}{r} 6.22 \\ \times 3.2 \\ \hline 1244 \\ +18660 \\ \hline 19.904 \end{array} \end{aligned}$$

Find each quotient.

$$\begin{aligned} 15) -6.3 \div -3.5 &= \boxed{1.8} \\ &\begin{array}{r} 1.8 \\ 35 \overline{) 63.0} \\ \underline{-35} \\ 280 \\ \underline{-280} \\ 0 \end{array} \end{aligned}$$

$$\begin{aligned} 16) 1.9 \div -2.5 &= \boxed{-0.76} \\ &\begin{array}{r} 0.76 \\ 25 \overline{) 19.00} \\ \underline{-175} \\ 150 \\ \underline{-150} \\ 0 \end{array} \end{aligned}$$

Evaluate each expression.

$$\begin{aligned} 17) \left(-1\frac{3}{4} - 2\frac{1}{3}\right) \times 2 \div -1\frac{3}{4} \\ &= \left(-\frac{7}{4} - \frac{7}{3}\right) \times \frac{2}{1} \times \frac{-4}{7} \\ &= \left(-\frac{21}{12} - \frac{28}{12}\right) \times \frac{-8}{7} \\ &= \frac{-49}{12} \times \frac{-8}{7} = \frac{14}{3} = \boxed{4\frac{2}{3}} \end{aligned}$$

$$\begin{aligned} 18) \frac{-4}{5} \left(\frac{11}{6} - 1\right)^2 &= \frac{-4}{5} \left(\frac{11}{6} - \frac{6}{6}\right)^2 \\ &= \frac{-4}{5} \left(\frac{5}{6}\right)^2 \\ &= \frac{-4}{5} \times \frac{25}{36} \\ &= \boxed{-\frac{5}{9}} \end{aligned}$$

$$\begin{aligned} 19) -2.1 \div -1.4 - 4 \times 0.5 \\ &= 1.5 - 2 \\ &= \boxed{-0.5} \end{aligned}$$

$$\begin{aligned} 20) 5.96 + (5.6 + 0.2) \times -4.6 \\ &= 5.96 + 5.8 \times -4.6 \\ &= 5.96 - 26.68 \\ &= \boxed{-20.72} \end{aligned}$$

$$\begin{array}{r} 1.5 \\ 14 \overline{) 21.0} \\ \underline{-14} \\ 70 \\ \underline{-70} \\ 0 \end{array}$$

$$\begin{array}{r} 5.8 \\ \times 4.6 \\ \hline 348 \\ +2320 \\ \hline 2668 \end{array} \quad \begin{array}{r} 5 \\ 26.68 \\ -5.96 \\ \hline 20.72 \end{array}$$

Math 9

Rational Numbers Review

Extending

Order the Unlike Fractions from Greatest to Least

1) $\frac{2 \times 8}{3 \times 8} \frac{7}{6}, -\frac{1}{2}, -\frac{3}{4}, \frac{5 \times 3}{8 \times 3}$ $-\frac{3}{4}, -\frac{1}{2}, \frac{5}{8}, \frac{2}{3}, \frac{7}{6}$	2) $\frac{7}{18}, -\frac{7}{6}, \frac{3}{4}, -\frac{5}{9}, \frac{5}{12}$ $-\frac{7}{6}, -\frac{5}{9}, \frac{7}{18}, \frac{5}{12}, \frac{3}{4}$
3) $-\frac{2}{5}, \frac{7}{10}, -\frac{3}{25}, -\frac{4}{15}, -\frac{1}{20}$ $-\frac{2}{5}, -\frac{4}{15}, -\frac{3}{25}, -\frac{1}{20}, \frac{7}{10}$	4) $\frac{9}{16}, \frac{5 \times 2}{8 \times 2} \frac{7}{12}, -\frac{3}{4}, \frac{11}{24}$ $-\frac{3}{4}, -\frac{7}{12}, \frac{11}{24}, \frac{9}{16}, \frac{5}{8}$
5) $-\frac{4}{27}, \frac{4}{18}, -\frac{1 \times 6}{6 \times 6} \frac{5}{9}, -\frac{5}{36}$ $-\frac{5}{9}, -\frac{1}{6}, -\frac{4}{27}, -\frac{5}{36}, \frac{4}{18}$	6) $-\frac{2}{5}, -\frac{2}{3}, \frac{9}{10}, \frac{7}{4}, \frac{1}{2}$ $-\frac{2}{3}, -\frac{2}{5}, \frac{1}{2}, \frac{9}{10}, \frac{7}{4}$
7) $\frac{3}{8}, -\frac{5 \times 2}{6 \times 2} \frac{1}{4}, -\frac{11}{12}, \frac{2}{5}$ $-\frac{11}{12}, -\frac{5}{6}, \frac{1}{4}, \frac{3}{8}, \frac{2}{5}$	8) $\frac{9}{10}, -\frac{21}{50}, \frac{19}{30}, -\frac{17}{20}, -\frac{9}{40}$ $-\frac{17}{20}, -\frac{21}{50}, -\frac{9}{40}, \frac{19}{30}, \frac{9}{10}$
9) $-\frac{9}{11}, -\frac{5}{12}, -\frac{13 \times 10}{18 \times 10} \frac{7 \times 18}{10 \times 18} \frac{2}{7}$ $-\frac{9}{11}, -\frac{13}{18}, -\frac{7}{10}, -\frac{5}{12}, \frac{2}{7}$	10) $\frac{5}{26}, -\frac{15}{23}, -\frac{2}{11}, -\frac{4}{13}, \frac{16}{21}$ $-\frac{15}{23}, -\frac{4}{13}, -\frac{2}{11}, \frac{5}{26}, \frac{16}{21}$
11) $-\frac{3}{4}, -\frac{9}{2}, \frac{5 \times 3}{7 \times 3} \frac{7}{5}, \frac{1 \times 7}{3 \times 7}$ $-\frac{9}{2}, -\frac{7}{5}, -\frac{3}{4}, \frac{1}{3}, \frac{5}{7}$	12) $\frac{3}{15}, \frac{2}{5}, -\frac{11}{45}, \frac{23 \times 2}{30 \times 2} \frac{47}{60}$ $-\frac{11}{45}, \frac{3}{15}, \frac{2}{5}, \frac{23}{30}, \frac{47}{60}$

Name: _____

Comparing Decimals

Compare each pair of decimals using the symbols $>$, $<$ or $=$.

1) 32.4893 $>$ 32.489

2) -16.678 $<$ -16.5

3) -24.59 $>$ -24.7641

4) -45.87 $<$ -45.8

5) -6.7 $<$ -6.474

6) 36.956 $<$ 37.2325

7) 15.1 $=$ 15.1

8) -20.5345 $<$ -20.1045

9) -48.5328 $>$ -50.354

10) 9.168 $>$ -9.168

11) 36.4 $>$ 36.2683

12) -27.2713 $>$ -27.895

13) -19.2367 $<$ -19.236

14) 31.58 $>$ 30.999

15) 8.989 $>$ 8.7985

16) -42.5 $>$ -42.9

Rational Numbers Review

Evaluate each expression.

$$1) \left(-1\frac{1}{2}\right) + \left(+\frac{3}{8}\right) - 11 = \frac{-3 \times 4}{2 \times 4} + \frac{3}{8} - \frac{11 \times 8}{1 \times 8}$$

$$= -\frac{12}{8} + \frac{3}{8} - \frac{88}{8}$$

$$= -\frac{97}{8} = \boxed{-12\frac{1}{8}}$$

$$2) \left(-\frac{11}{6}\right) + \left(-\frac{7}{4}\right) + \frac{1 \times 3}{4 \times 3} = \frac{-22}{12} + \frac{-21}{12} + \frac{3}{12}$$

$$= \frac{-40}{12} = -\frac{10}{3} = \boxed{-3\frac{1}{3}}$$

$$3) 5\frac{4}{9} - 2\frac{3}{7} + \frac{1}{8} - 3\frac{4}{7} = \frac{49}{9} - \frac{17}{7} + \frac{1}{8} - \frac{25}{7}$$

$$= \frac{49 \times 7 \times 8}{9 \times 7 \times 8} - \frac{42 \times 8 \times 9}{7 \times 8 \times 9} + \frac{1 \times 7 \times 9}{8 \times 7 \times 9}$$

$$= \frac{2744}{504} - \frac{3024}{504} + \frac{63}{504} = \frac{-217}{504} = \boxed{-\frac{31}{72}}$$

$$4) \left(-\frac{7}{8}\right) + \frac{5}{4} - \frac{1}{7} + \frac{2}{9} = \frac{-63}{72} + \frac{90}{72} - \frac{72}{72} + \frac{16}{72}$$

$$= \boxed{-\frac{29}{72}}$$

$$5) (-1.8) + (+1.1) - 10 = -0.7 - 10$$

$$= \boxed{-10.7}$$

$$6) 6.1 + (-8.8) + 2.4 = -2.7 + 2.4$$

$$= \frac{8.8}{-6.1} - 2.7 = \boxed{-0.3}$$

$$7) (-4.8) + (+7.4) + 1.235 + (+7.9) = 2.6 + 1.235 + 7.9 = 11.735$$

$$\begin{array}{r} 7.4 \\ -4.8 \\ \hline 2.6 \\ + 1.235 \\ \hline 11.735 \end{array}$$

$$8) 8.5 - 0.2 + (+8.95) + (-6.7) = 8.3 + 8.95 + (-6.7)$$

$$= 17.25 + (-6.7) = 10.55$$

$$\begin{array}{r} 8.30 \\ -8.95 \\ \hline 17.25 \\ -6.70 \\ \hline 10.55 \end{array}$$

Find each product.

$$9) \left(\frac{2}{1}\right) \left(-1\frac{1}{6}\right) \left(\frac{1}{2}\right) = \frac{2}{1} \times \frac{-7}{6} \times \frac{1}{2}$$

$$= -\frac{7}{6} = \boxed{-1\frac{1}{6}}$$

$$10) \left(\frac{-5}{1}\right) \left(\frac{5}{4}\right) \left(-\frac{4}{7}\right) = \frac{25}{7}$$

$$= \boxed{3\frac{4}{7}}$$

Find each quotient.

$$11) \frac{-2\frac{1}{2}}{3\frac{4}{5}} = \frac{-\frac{5}{2} \div \frac{19}{5}}{\frac{19}{5}}$$

$$= \frac{-\frac{5}{2} \times \frac{5}{19}}{\frac{19}{5}}$$

$$= \boxed{\frac{-25}{38}}$$

$$12) \frac{7\frac{3}{8}}{\frac{8}{7}} = \frac{59}{8} \div \frac{8}{7}$$

$$= \frac{59}{8} \times \frac{7}{8}$$

$$= \frac{413}{64} = \boxed{6\frac{29}{64}}$$

Find each product.

$$13) (-2.2)(-1.8)(2.5) = +3.96 \times 2.5$$

$$\begin{array}{r} 2.2 \\ \times 1.8 \\ \hline 176 \\ + 220 \\ \hline 3.96 \end{array} \quad \begin{array}{r} 3.96 \\ \times 2.5 \\ \hline 1980 \\ + 7920 \\ \hline 9.900 \end{array} = \boxed{9.9}$$

$$14) (1.81)(-1.5)(8) = \boxed{-21.72}$$

$$\begin{array}{r} 1.81 \\ \times 1.5 \\ \hline 1905 \\ + 1810 \\ \hline 2.715 \end{array} \quad \begin{array}{r} 2.715 \\ \times 8 \\ \hline 21.720 \end{array}$$

Find each quotient.

$$15) \frac{-7.8}{6.5} = \boxed{-1.2}$$

$$\begin{array}{r} 1.2 \\ 65 \overline{) 78.0} \\ \underline{-65} \downarrow \\ 130 \\ \underline{-130} \\ 0 \end{array}$$

$$16) \frac{1.3}{-0.8} = \boxed{-1.625}$$

$$\begin{array}{r} 1.625 \\ 8 \overline{) 13.000} \\ \underline{-8} \downarrow \\ 50 \\ \underline{-48} \downarrow \\ 20 \\ \underline{-16} \downarrow \\ 40 \end{array}$$

Evaluate each expression.

$$17) -3\frac{1}{3} + \left(-2\frac{6}{7}\right)^2 - \left(1\frac{2}{3} - -\frac{1}{2}\right) = \frac{-10}{3} + \left(\frac{-20}{7}\right)^2 - \left(\frac{5}{3} + \frac{1}{2}\right) \times 3\frac{9}{10} = \left(\frac{2}{3} - \frac{2}{7} \times \frac{5}{2}\right) \times \frac{39}{10}$$

$$= \frac{-10 \times 2}{3 \times 2} + \frac{400}{49} - \frac{13}{6} = \frac{-20}{6} - \frac{13}{6} + \frac{400}{49} = \left(\frac{2}{3} - \frac{5}{7}\right) \times \frac{39}{10} = \left(\frac{14}{21} - \frac{15}{21}\right) \times \frac{39}{10} = \frac{-1}{21} \times \frac{39}{10}$$

$$= \frac{-33}{6} + \frac{400}{49} = \frac{-1617}{294} + \frac{2400}{294} = \frac{783}{294} = \frac{261}{98} = \boxed{2\frac{65}{98}} = \frac{-39}{210} = \boxed{\frac{-13}{70}}$$

$$19) 7.2 \times -5.6 - (-6.7 - -0.2 \times -2)$$

$$= -40.32 - (-6.7 - 0.4)$$

$$= -40.32 + (+7.1)$$

$$= \boxed{-33.22}$$

$$20) 0.6 - 7.6 - (2.9 + +0.7)^2 = 0.6 - 7.6 - (3.6)^2$$

$$= -7 - 12.96$$

$$= \boxed{-19.96}$$

$$\begin{array}{r} 3.6 \\ \times 3.6 \\ \hline 216 \\ + 1080 \\ \hline 1296 \end{array}$$

$$\begin{array}{r} 7.2 \\ \times 5.6 \\ \hline 432 \\ + 4320 \\ \hline 4032 \end{array}$$

$$\begin{array}{r} 40.32 \\ - 7.1 \\ \hline 33.22 \end{array}$$