

Rational Number Review

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Evaluate each expression.

1) $\frac{3}{2} - \frac{3}{5}$

2) $\frac{5}{4} + \frac{5}{3}$

3) $\frac{8}{5} - 2\frac{1}{8}$

4) $(-1) + \left(-\frac{9}{7}\right)$

5) $2\frac{2}{3} - 1\frac{1}{6} + 3\frac{1}{8}$

6) $(-1) - 1\frac{1}{5} - \frac{3}{2}$

Find each product.

7) $-2\frac{7}{10} \times -\frac{2}{3}$

8) $1\frac{1}{4} \times -1\frac{2}{3}$

9) $-10 \times -\frac{5}{3}$

10) $-2\frac{6}{7} \times -3\frac{1}{2}$

11) $-2\frac{4}{7} \times 1\frac{1}{3} \times -3$

12) $-2\frac{6}{7} \times -3\frac{5}{8} \times -\frac{2}{3}$

13) $2\frac{3}{8} \times 2\frac{4}{7} \times -\frac{1}{3}$

14) $-2\frac{2}{3} \times 2\frac{1}{2} \times -\frac{3}{2}$

Find each quotient.

15) $-1\frac{1}{6} \div \frac{-7}{5}$

16) $-2\frac{2}{5} \div \frac{4}{3}$

17) $2 \div \frac{-4}{5}$

18) $2 \div \frac{-7}{5}$

19) $-1 \div \frac{13}{7}$

20) $\frac{3}{8} \div \frac{-4}{3}$

21) $-2\frac{2}{3} \div \frac{2}{3}$

22) $5\frac{1}{2} \div -1\frac{3}{4}$

Evaluate each expression.

23) $3\frac{2}{3} \div \left(1\frac{1}{2} + 4\right)$

24) $2\frac{2}{3} \div \left(1\frac{1}{4} - \frac{2}{5}\right)$

25) $\left(2\frac{5}{6} + 2\right) \div \frac{1}{6}$

26) $1\frac{1}{3} + 2 - \frac{4}{5}$

27) $\frac{1}{5} + 3\frac{1}{2} - \frac{7}{6}$

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

29) $5 + \left(-3\frac{2}{3}\right) - \left(-3\frac{3}{4}\right)$

30) $\left(\frac{-5}{3}\right) \times \left(-3\frac{5}{6}\right) - \frac{4}{3}$

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

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

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

34) $(3 \times 2) \div \left(\left(-2\frac{1}{2}\right) - \frac{3}{2}\right)$

35) $(-2) - \frac{3}{2} + \frac{3}{2} \div \left(-1\frac{1}{2}\right)$

36) $(-2) - \left(\left(\frac{-3}{2}\right) - \frac{7}{6}\right) \times \frac{5}{4}$

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

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

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Evaluate each expression.

1) $\frac{3}{2} - \frac{3}{5} - \frac{9}{10}$

2) $\frac{5}{4} + \frac{5}{3} - \frac{11}{12}$

3) $\frac{8}{5} - 2\frac{1}{8} - \frac{21}{40}$

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

5) $2\frac{2}{3} - 1\frac{1}{6} + 3\frac{1}{8} - \frac{5}{8}$

6) $(-1) - 1\frac{1}{5} - \frac{3}{2} - 3\frac{7}{10}$

Find each product.

7) $-2\frac{7}{10} \times -\frac{2}{3} - \frac{4}{5}$

8) $1\frac{1}{4} \times -1\frac{2}{3} - 2\frac{1}{12}$

9) $-10 \times -\frac{5}{3} - 16\frac{2}{3}$

10) $-2\frac{6}{7} \times -3\frac{1}{2}$

10

11) $-2\frac{4}{7} \times 1\frac{1}{3} \times -3 - 10\frac{2}{7}$

12) $-2\frac{6}{7} \times -3\frac{5}{8} \times -\frac{2}{3} - 6\frac{19}{21}$

13) $2\frac{3}{8} \times 2\frac{4}{7} \times -\frac{1}{3} - 2\frac{1}{28}$

14) $-2\frac{2}{3} \times 2\frac{1}{2} \times -\frac{3}{2}$

10

Find each quotient.

15) $-1\frac{1}{6} \div \frac{-7}{5} - \frac{5}{6}$

16) $-2\frac{2}{5} \div \frac{4}{3} - 1\frac{4}{5}$

17) $2 \div \frac{-4}{5} - 2\frac{1}{2}$

18) $2 \div \frac{-7}{5} - 1\frac{3}{7}$

19) $-1 \div \frac{13}{7} - \frac{7}{13}$

20) $\frac{3}{8} \div \frac{-4}{3} - \frac{9}{32}$

21) $-2\frac{2}{3} \div \frac{2}{3}$

 -4

22) $5\frac{1}{2} \div -1\frac{3}{4} - 3\frac{1}{7}$

Evaluate each expression.

23) $3\frac{2}{3} \div \left(1\frac{1}{2} + 4\right)$

 $\frac{2}{3}$

24) $2\frac{2}{3} \div \left(1\frac{1}{4} - \frac{2}{5}\right)$

 $3\frac{7}{51}$

25) $\left(2\frac{5}{6} + 2\right) \div \frac{1}{6}$

 29

26) $1\frac{1}{3} + 2 - \frac{4}{5}$

 $2\frac{8}{15}$

27) $\frac{1}{5} + 3\frac{1}{2} - \frac{7}{6}$

 $2\frac{8}{15}$

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

 $5\frac{4}{125}$

29) $5 + \left(-3\frac{2}{3}\right) - \left(-3\frac{3}{4}\right)$

 $5\frac{1}{12}$

30) $\left(\frac{-5}{3}\right) \times \left(-3\frac{5}{6}\right) - \frac{4}{3}$

 $5\frac{1}{18}$

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

 $-16\frac{1}{2}$

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

 $8\frac{4}{45}$

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

 $-5\frac{1}{7}$

34) $(3 \times 2) \div \left(\left(-2\frac{1}{2}\right) - \frac{3}{2}\right)$

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

35) $(-2) - \frac{3}{2} + \frac{3}{2} \div \left(-1\frac{1}{2}\right)$

 $-4\frac{1}{2}$

36) $(-2) - \left(\left(\frac{-3}{2}\right) - \frac{7}{6}\right) \times \frac{5}{4}$

 $1\frac{1}{3}$

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

 $\frac{-3}{8}$

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

 $\frac{-5}{8}$