

Performing Combined Operations on Mixed Numbers

Evaluate each expression.

$$1) 2\frac{1}{4} \div -2\frac{5}{6} - 1\frac{3}{4}$$

$$2) \left(1\frac{1}{2} \div \frac{1}{6}\right)\left(3\frac{1}{3}\right)$$

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

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

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

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

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

$$8) \frac{1}{2} - \frac{1}{2} - 1\frac{1}{6}$$

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

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

$$11) 3\frac{1}{6} - -\frac{1\frac{1}{3}}{-2\frac{1}{2} - 1\frac{1}{3}}$$

$$12) -2\frac{1}{2} + \left(2\frac{1}{3}\right)\left(\left(2\frac{1}{3}\right)^2\right)$$

$$13) \frac{-3\frac{1}{3} - 1\frac{5}{6}}{3\frac{2}{3}} + \frac{5}{6}$$

$$14) \frac{\left(1\frac{4}{5}\right)\left(3\frac{1}{2}\right)}{2\frac{3}{4} + 3\frac{5}{6}}$$

$$15) \left(\left(-2\frac{1}{3}\right)\left(-2\frac{2}{5} - 2\frac{1}{3}\right)\right)\left(-1\frac{5}{6}\right)$$

$$16) \left(\frac{1\frac{3}{4}}{\frac{3}{4}}\right)\left(3\frac{1}{6} - -1\frac{1}{6}\right)$$

$$17) 2\frac{1}{4} + \frac{1}{2} - \left(6\frac{1}{2} - \left(3\frac{1}{6} - -1\frac{3}{5}\right)\right)$$

$$18) \left(-2\frac{1}{2}\right)\left(\left(3\frac{2}{3}\right)\left(3\frac{3}{4} - 2\frac{1}{5}\right) - -1\frac{2}{3}\right)$$

$$19) -\frac{\left(3\frac{1}{4}\right)\left(-1\frac{1}{3} - -3\frac{1}{2}\right)}{3\frac{1}{2} + 3\frac{1}{4}}$$

$$20) \left(-\frac{5\frac{2}{3}}{\left(6\frac{1}{6}\right)\left(-2\frac{1}{5}\right)}\right)\left(-3\frac{4}{5} - 6\frac{2}{5}\right)$$

$$21) \left(3\frac{1}{2} - 2\frac{1}{2}\right)\left(\left(-3 - \frac{1}{3}\right)\left(-3\frac{1}{2}\right)\right)$$

$$22) \left(\left(3\frac{2}{3}\right)^2 - 1\frac{2}{5}\right)\left(1\frac{5}{6} - 3\frac{4}{5}\right)$$

$$23) \frac{3\frac{5}{6} + 2\frac{1}{4} - 1\frac{1}{2}}{\left(-1\frac{1}{4}\right)\left(-2\frac{1}{2}\right)}$$

$$24) \left(1\frac{5}{6}\right)^2 + \left(3\frac{1}{3}\right)\left(\left(2\frac{5}{6}\right)\left(-2\frac{1}{6}\right)\right)$$

Answers to Performing Combined Operations on Mixed Numbers

1) $-2\frac{37}{68}$

2) 30

3) $-2\frac{59}{68}$

4) $6\frac{7}{10}$

5) $-4\frac{8}{15}$

6) $-\frac{55}{59}$

7) $-\frac{1}{4}$

8) $-1\frac{1}{6}$

9) $2\frac{5}{22}$

10) $-8\frac{1}{2}$

11) $2\frac{113}{138}$

12) $10\frac{11}{54}$

13) $-\frac{19}{33}$

14) $\frac{378}{395}$

15) $-20\frac{67}{270}$

16) $10\frac{1}{9}$

17) $1\frac{1}{60}$

18) $-18\frac{3}{8}$

19) $-1\frac{7}{162}$

20) $-4\frac{106}{407}$

21) $11\frac{2}{3}$

22) $-23\frac{464}{675}$

23) $1\frac{7}{15}$

24) $-17\frac{11}{108}$