

Performing Combined Operations on Mixed Numbers

Evaluate each expression.

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

2) $3\frac{2}{3} \cdot 2 \cdot 1\frac{2}{3}$

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

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

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

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

7) $\left(2\frac{1}{6} - 1\frac{1}{2}\right) \cdot 2\frac{2}{3}$

8) $2\frac{3}{4} + 3\frac{3}{5} - 3\frac{2}{3}$

9) $2\frac{1}{2} \cdot 1\frac{5}{6} - 2\frac{4}{5}$

10) $1\frac{1}{3} \div 1\frac{1}{4} \cdot 1\frac{1}{2}$

11) $3\frac{1}{5} \cdot 3\frac{1}{2} + 6 \cdot 3\frac{4}{5}$

12) $3\frac{4}{5} - 2\frac{1}{3} - \left(2\frac{3}{4} - 1\frac{1}{2}\right)$

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

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

15) $\left(3\frac{3}{5} + 2\frac{1}{4} + 2\frac{1}{3}\right) \cdot 3\frac{4}{5}$

16) $3\frac{3}{5}\left(3\frac{1}{6} \div 1\frac{3}{5} + 3\frac{1}{6}\right)$

17) $3\frac{1}{6} \cdot 2\frac{1}{6} - 1\frac{1}{3} \cdot 2\frac{1}{2}$

18) $\left(\left(2\frac{5}{6} - 2\frac{1}{3}\right) \cdot 2\frac{1}{2}\right) \div 1\frac{5}{6}$

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

20) $3\frac{1}{6} + 3\frac{2}{5} - 2\frac{5}{6} + 2\frac{4}{5}$

Answers to Performing Combined Operations on Mixed Numbers

1) $49\frac{8}{27}$

2) $12\frac{2}{9}$

3) $10\frac{1}{36}$

4) $10\frac{1}{2}$

5) $\frac{29}{50}$

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

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

8) $2\frac{41}{60}$

9) $1\frac{47}{60}$

10) $1\frac{3}{5}$

11) 34

12) $\frac{13}{60}$

13) $\frac{9}{64}$

14) $8\frac{61}{360}$

15) $31\frac{29}{300}$

16) $18\frac{21}{40}$

17) $3\frac{19}{36}$

18) $\frac{15}{22}$

19) $10\frac{26}{135}$

20) $6\frac{8}{15}$