

Order of Operations (BEDMAS) with Fractions and Mixed Numbers

1. Evaluate.

a) $\left(\frac{1}{2} + \frac{1}{3}\right) \times \frac{2}{5}$

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

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

d) $\frac{5}{16} - \frac{11}{10} \div \frac{22}{5}$

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

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

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

h) $\frac{2}{3} + \frac{1}{3} \times \frac{1}{2}$

i) $\frac{7}{8} + \frac{1}{4} \times \left(\frac{3}{2} - \frac{5}{8}\right)$

j) $\left(\frac{10}{7} - \frac{1}{2}\right) \times \left(\frac{2}{3} + \frac{5}{6}\right)$

k) $\frac{3}{4} - \frac{12}{7} \div \frac{12}{21} + \frac{4}{5}$

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

2. Evaluate.

a) $2\frac{1}{2} + \left(3\frac{1}{4} - 1\frac{7}{8}\right)$

b) $\left(2\frac{1}{2} - 1\frac{1}{3}\right) \times 3\frac{1}{7}$

c) $1\frac{1}{4} + 2\frac{1}{3} \div \frac{1}{6}$

d) $2\frac{1}{10} \div 1\frac{1}{2} - 1\frac{1}{15}$

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

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

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

h) $4\frac{1}{2} \times 1\frac{1}{4} + 2\frac{1}{2} \times 1\frac{1}{4} + 3\frac{1}{4}$

Answers

1. a) $\frac{1}{3}$ b) $\frac{3}{4}$ c) $3\frac{1}{2}$ d) $\frac{1}{16}$ e) $\frac{7}{12}$ f) $\frac{29}{30}$ g) $\frac{17}{24}$ h) $\frac{5}{6}$
- i) $1\frac{3}{32}$ j) $1\frac{11}{28}$ k) typo in the question, the answer as is would be $-\frac{29}{20}$ l) $\frac{13}{15}$
2. a) $3\frac{7}{8}$ b) $3\frac{2}{3}$ c) $15\frac{1}{4}$ d) $\frac{1}{3}$ e) $3\frac{1}{2}$ f) $8\frac{1}{3}$ g) $3\frac{1}{4}$ h) 12