

Order of Operations II

Increasingly
Difficult
Exercises

Red (a – e)

a) $45 + 12 \times 6$

b) $15 - 60 \div 5$

c) $3^2 + 24 \div 8$

d) $36 \div 3 - 7^2$

e) $(3^2 + (\sqrt{36} - 5))^2$

f) $((5 + \sqrt{16}) - 2^4)^2$

g) $\frac{7}{10} + \frac{1}{3} \times \frac{4}{5}$

h) $\frac{11}{12} \times \frac{15}{22} - \frac{2}{3}$

i) $\frac{3}{8} - \frac{3}{4} \times \frac{9}{10}$

j) $\frac{7}{10} \div \frac{1}{3} - \frac{7}{12}$

Amber (d – h)

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

b) $\frac{7}{12} \times \frac{3}{14} + \frac{4}{5}$

c) $\frac{7}{15} \times \frac{12}{21} - \frac{2}{3}$

d) $\frac{4}{5} \div \frac{7}{10} - \frac{2}{5}$

e) $\frac{5}{12} \div \frac{11}{18} + \frac{1}{6}$

f) $\frac{7}{8} - \frac{3}{8} \div \frac{9}{16}$

g) $\frac{4}{5} \times \frac{3}{8} - \frac{2}{3} \div \frac{4}{15}$

h) $\frac{9}{10} - \left(\frac{7}{12} \times \frac{9}{10}\right) + \frac{3}{8}$

i) $\left(\frac{2}{5} + \frac{3}{8} \div \frac{3}{4}\right)^2$

j) $\left(\frac{3}{8} - \frac{15}{16} \times \frac{4}{5}\right)^2$

Green (g – j)

- a) $\frac{3}{8} \times \left(\frac{3}{4} - \frac{2}{5}\right) \div \frac{1}{3}$
- b) $\frac{1}{5} \div \frac{6}{25} - \frac{3}{4} \div \frac{8}{15}$
- c) $\left(\frac{5}{16} + \frac{1}{4} \div \frac{4}{5}\right)^2$
- d) $\left(\frac{7}{8} \times \frac{3}{5} \div \frac{3}{4}\right)^2$
- e) $0.8 + 0.5 \times 0.4$
- f) $1.2 - 2.4 \times 0.15$
- g) $0.3 \times (0.2 + 0.5) \div 0.6$
- h) $0.9 \times 0.05 + 0.03 \div 0.5$

Purple (i – l)

- a) $0.2 - 0.8 \times 0.4$
- b) $0.35 + 0.3 \div 0.12$
- c) $1.2 \times 0.08 + 0.15 \div 0.8$
- d) $0.5 - (0.9 \times 0.3) + 0.02$
- e) $\left(\frac{7}{8} \div 0.2 + 0.4^2 \div \frac{2}{3}\right)^2$
- f) $\left(\frac{3}{5} \div 1.5 + \left(\frac{3}{8}\right)^2 \div 0.2\right)^3$
- g) $4a - 6a \times 3a + 8a$
- h) $(2b - 5b) \times 8b - 5b$