

Review Topic 7 Fraction Multiplication & Division

Ⓐ $\frac{1}{5} \times \frac{2}{3} = \frac{2}{15}$ $\frac{1}{5} \times \left(-\frac{2}{3}\right) = -\frac{2}{15}$ $-\frac{1}{5} \times \frac{2}{3} = -\frac{2}{15}$ $-\frac{1}{5} \times \left(-\frac{2}{3}\right) = \frac{2}{15}$

Ⓑ $\frac{1}{5} \div \frac{2}{3} = \frac{1}{5} \times \frac{3}{2} = \frac{3}{10}$ $\frac{1}{5} \div \left(-\frac{2}{3}\right) = \frac{1}{5} \times \left(-\frac{3}{2}\right) = -\frac{3}{10}$ $-\frac{1}{5} \div \frac{2}{3} = -\frac{3}{10}$ $-\frac{1}{5} \div \left(-\frac{2}{3}\right) = \frac{3}{10}$

Ⓒ $\left(\frac{2}{3}\right)^2 = \frac{2 \cdot 2}{3 \cdot 3} = \frac{4}{9}$ $\left(-\frac{2}{3}\right)^2 = \left(-\frac{2}{3}\right)\left(-\frac{2}{3}\right) = \frac{4}{9}$ $\left(-\frac{2}{3}\right)^3 = \left(-\frac{2}{3}\right)\left(-\frac{2}{3}\right)\left(-\frac{2}{3}\right) = -\frac{8}{27}$

$\left(-\frac{2}{3}\right)^4 = \left(-\frac{2}{3}\right)\left(-\frac{2}{3}\right)\left(-\frac{2}{3}\right)\left(-\frac{2}{3}\right) = \frac{16}{81}$

Ⓓ $5\frac{1}{4} \times \left(-\frac{3}{7}\right) \times 1\frac{3}{5} = \left(5\frac{1}{4}\right)\left(-\frac{3}{7}\right)\left(1\frac{3}{5}\right) = -3\frac{3}{5}$ $\left(-5\frac{1}{4}\right)\left(-\frac{3}{7}\right)\left(-1\frac{3}{5}\right) = -3\frac{3}{5}$ $\left(5\frac{1}{4}\right)\left(-\frac{3}{7}\right)\left(-1\frac{3}{5}\right) = 3\frac{3}{5}$
all the same except -...- = - *now +...- = +*

Ⓔ $4\frac{3}{8} \div 3\frac{3}{4} = \frac{35}{8} \div \frac{15}{4} = 1\frac{35}{8} \times \frac{4}{15} = \frac{7}{6} = 1\frac{1}{6}$ $-4\frac{3}{8} \div 3\frac{3}{4} = -1\frac{1}{6}$ $4\frac{3}{8} \div \left(-3\frac{3}{4}\right) = -1\frac{1}{6}$ $-4\frac{3}{8} \div \left(-3\frac{3}{4}\right) = 1\frac{1}{6}$
- ÷ + = - *- ÷ - = +*

Ⓕ $5^3 = 5 \cdot 5 \cdot 5 = 125$ $(-3)^4 = (-3)(-3)(-3)(-3) = 81$ $(-2)^7 = -128$ $(-8)^2 = 64$

Ⓖ $\frac{2}{3}$ of flour $\frac{2}{3} \left(2\frac{3}{4}\right) = \frac{2}{3} \cdot \frac{11}{4} = \frac{11}{6} = 1\frac{5}{6}$ sacks
multiply *split evenly to divide* *naibore split so 4/5 goes first*
 $\frac{4}{5} \div 4 = \frac{4}{5} \div \frac{4}{1} = \frac{4}{5} \times \frac{1}{4} = \frac{1}{5}$ lbs.