www.ontsyferwiskunde.co.za 8.1.6 Gr 8 Wiskunde | Mathematics Breuke / Fractions (2) 1. Skakel om $\overset{\longrightarrow}{}^{+}$ 2. $\div \overset{\longrightarrow}{}^{-}$ X, flip
3. $\times \overset{\longrightarrow}{}^{-}$ 3. $\times \overset{\longrightarrow}{}^{-}$ 4. + en - KGV

1. Convert $\overset{\longrightarrow}{}^{+}$ 2. $\div \overset{\longrightarrow}{}^{-}$ X, flip
4. + en - KGV

4. + en - KGV 1. : van Breuke / : of Fractions 4 sodra jy $\div \frac{a}{b}$ sien 4 when you see $\div \frac{a}{b}$ 4 verander \div na \times 4 Change \div to \times 4 flip breuk na \div 4 flip fraction after \div a) $\frac{3}{5} \div \frac{3}{10}$ $= \frac{3}{5} \times \frac{10}{3}$ • Nou is dit $\times \rightarrow$ $= \frac{3 \times 10}{5 \times 3}$ • Now it is $\times \rightarrow$ $= \frac{3 \times 10}{5 \times 3}$ $= \frac{30}{15}$ or $\frac{10}{3} \times \frac{10}{3}$ b) $3\frac{1}{2}+\frac{1}{2}+\frac{2}{3}+$ $= \frac{7}{2} \frac{1}{16} \frac{8}{3}$ $= \frac{7}{2} \times \frac{3}{8}$ $= \frac{7 \times 3}{2 \times 8}$ $= \frac{21}{16} / \frac{5}{16}$

$$= \frac{7 \times 9}{2 \times 4 \times 3}$$

=
$$\frac{7 \times 9 \times 1}{63 \div 3}$$
 vereenvoudia / simplify

$$= \frac{8}{21}$$

Gemengde bewerkings / Mixed Calculations

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

$$= \frac{11}{5} - \frac{3}{4} \times \frac{3}{2}$$

$$11 \times 8 \qquad 9 \times 5$$

$$=\frac{88}{40}-\frac{45}{40}$$

$$=\frac{43}{40} / \frac{3}{40}$$

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

$$= \left(-\frac{11}{6} + \frac{5 \times 3}{2 \times 3}\right)^2 \times \frac{2}{3}$$

$$=\left(-\frac{11}{6}+\frac{15}{6}\right)^2\times\frac{2}{3}$$

$$= \left(\frac{-11+15}{6}\right)^2 \times \frac{2}{3}$$

$$= \left(\frac{4}{6}\right)^2 \times \frac{2}{3}$$

$$= \left(\frac{2}{3}\right)^2 \times \frac{2}{3}$$

$$= \left(\frac{2}{3}\right)\left(\frac{2}{3}\right) \times \frac{2}{3}$$

$$=\frac{8}{27}$$

At any time in a question, you are allowed to simplify a fraction...