8.1.5 0

Gr 8 Wiskunde Mathematics BREUKE / FRACTIONS (1)

- Ek leer my kids om altyd die gemengde breuke om te skakel ha onegte breuke $2\frac{1}{2} = \frac{5}{2}$
- I teach all my kids to convert any mixed fraction to an improper fraction $2\frac{1}{2} = \frac{5}{2}$

Hersiening / Revision

$$=$$
 $\frac{3}{5}$ $+$ $\frac{5}{5}$

$$=\frac{50}{15}+\frac{33}{15}$$

$$=5\frac{8}{15}$$

$$\begin{cases} 3 \times 3 = 9 + 1 = 10 \\ 2 \times 5 = 10 + 1 = 11 \end{cases}$$

Kry onder (noemer) dieselfde Get denominators (bottom) the same.

2.
$$\frac{4 \times 24}{1 \times 24} - \frac{17 \times 3}{8 \times 3} + \frac{2 \times 8}{3 \times 8}$$

$$= \frac{96}{24} - \frac{51}{24} + \frac{16}{24}$$

$$= \frac{96 - 51 + 16}{24}$$

$$= \frac{61}{24}$$
$$= 2 \frac{13}{24}$$

- 2 $\frac{1}{3}$ Maak alles breuke $4 = \frac{4}{3}$
 - Make everything fractions

Hoe kry jy die KGV? How to get the LCM 4 Kleinste Gemeenskaplike Veelvoud 47 Lowest Common Multiple 3 ; 6 ; 9 ; (2); 15 ... 4;8;(2); 16;20... $\frac{12}{12} + \frac{12}{12} - \frac{12}{12}$

(2); 24; 36...

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Met + en - → Kry noemers gelyk With + and - → Get denominators equal

... KG V

LCM ...

Met X -> "Goan ma(a) \" X kanselleer With X -> "Go crazy" / Cross X out

3.
$$\frac{1 \times 3}{2 \times 3} + \frac{2 \times 2}{3 \times 2}$$
 KGY: 6
= $\frac{3}{6} + \frac{1}{6}$
= $\frac{7}{6}$
= $1\frac{1}{6}$

$$=\frac{1}{2} \times \frac{2}{3}$$

$$=\frac{1}{2} \times \frac{2}{3}$$

$$=\frac{1}{3} \times \frac{2}{3}$$

#convert

$$= \frac{16}{5} \times \frac{15}{8}$$

$$= \frac{16}{5} \times \frac{15}{8}$$

$$= \frac{16}{5} \times \frac{15}{8}$$

$$= \frac{6}{1}$$

crossout.

5. $2\frac{1}{2} + 1\frac{2}{3} \times \frac{2}{5}$

$$= \frac{5}{2} + \frac{8}{3} \times \frac{2}{8}$$

$$= \frac{5 \times 3}{2 \times 3} + \frac{2 \times 2}{3 \times 2}$$

$$= \frac{15}{6} + \frac{4}{6}$$

$$= \frac{19}{6}$$

Volgorde | Order of Operation