Vraag 1

1.1. Skryf die volgende desimale breuke as gewone breuke:

a. 0,24

$= \frac{24}{100} = \frac{6}{25}$

b. 1,3

$= 1\frac{3}{10}$

c. -5,75

$= -5\frac{75}{100} = -5\frac{3}{4}$

d. $0,\overline{3}$

$Laat\ x = 0{,}3333\ldots$ (vergelyking 1)

$10x = 3{,}3333\ldots$ (vergelyking 2)

$9x = 3$ (vergelyking 2 – vergelyking 1)

$x = \frac{3}{9} = \frac{1}{3}$

1.2. Skryf die volgende gewone breuke as desimale breuke:

a. $\frac{15}{20} = \frac{75}{100} = 0{,}75$

b. $-\frac{3}{25} = -\frac{12}{100} = -0{,}12$

1.3. Bereken:

a. $0{,}234 + 1{,}222 = 1{,}456$

b. $3{,}75 - 2{,}25 = 1{,}5$

c. $1{,}23 \times 2{,}4$

$$\begin{array}{r} 123 \\ \times\ 24 \\ \hline 492 \\ +2460 \\ \hline 2952 \end{array}$$

$\therefore 2{,}953$

d. $(0{,}3)^2$

$= \left(\frac{3}{10}\right)^2$

$= \frac{9}{100}$

$= 0{,}09$

Vraag 2

Vereenvoudig:

2.1. $0{,}2x + 1{,}3x = 1{,}5x$

2.2. $2{,}5x + 1{,}23y - 1{,}25x + 1{,}36y = 1{,}25x + 2{,}59y$

2.3. $0{,}2x^2y(4xy^2 + 0{,}5x^3y^2) = 0{,}8x^3y^3 + 0{,}1x^5y^4$

2.4. $(0{,}2x)^2 + 1{,}36x^2 = 0{,}04x^2 + 1{,}36x^2$

$= 1{,}4x^2$