8.3.1

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ONTSYFER
WISKUNDE ONDERSTEUNING

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Gr 8 Wiskunde | Mathematics

Algebraïese Uitdrukkings | Algebraic Expressions (1)

1. Inleiding | Introduction

$3 \times x = 3x$ $\quad 4 \times y = 4y$ $\quad -2 \times a = -2a$

Wanneer jy x word alles 1 term.

When you x everything becomes 1 term.

$a \times b \times c = abc$

Probeer altyd die veranderlikes alfabeties skryf.

Try to always write the variables in alphabetical order

2. Gelyksoortige Terme | Like Terms (same)

Sodra veranderlikes (alfabetletters) in 'n som voorkom, mag jy slegs gelyksoortige terme + en −

Whenever you have variables (alphabet letters) in a calculation, you are only allowed to + and − like terms

Wat is gelyksoortig?

↳ Presies dieselfde
- alfabetletter/s
- eksponente

What is like (same)?

↳ The exact same
- alphabet letter/s
- exponents

$2a^2 + 3a^2$ ✓ $\quad 5a + 3b$ ✗ $\quad x^2 + 3x$ ✗

$4a - 3b - 2a$ $\quad 16x^2 - y + 4x + 6y$

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3. Terme in Uitdrukkings / Terms in Expressions

↳ Terme word deur + en − tekens geskei

↳ Terms are seperated with + and − signs

a) $2a$ ①

∴ 1 term

b) $4x + 2$ ① ②

∴ 2 terme / 2 terms

c) $4x^2 - 2x + 3$ ① ② ③

∴ 3 terme / 3 terms

d) $10a + 5b - 7c + 8$ ① ② ③ ④

∴ 4 terme / 4 terms

× ; ÷ ; ( ) vorm 1 term / forms 1 term

e) $\frac{2x}{5} - 4$ ① ②

f) $3xa^2 - 4a + (2 \times b)$ ① ② ③

4. Komponente / Components

1. Hoeveelheid terme
2. Konstante (getalle sonder alfabetletters)
3. Veranderlikes (alfabet-letters)
4. Koëffisiënte (dit wat langs letters staan)
5. Magte / Eksponente (Graad)

1. Number of Terms
2. Constants (Numbers without alphabet letters)
3. Variables (alphabet letters)
4. Coefficients (what stands next to letters)
5. Power / Exponents (Degree)

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5. Terminologie | Terminology

• Som van	+	• Sum of
• Verskil	−	• Difference
• Produk / Keer	×	• Product / Times
• Kwosiënt	÷	• Quotient
• Meer as	+	• More than
• Verminder	−	• Less than
• Kwadraat	$\square^2$	• Squared
• Sekere getal (of enige veranderlike)	x	• Certain number (Or any variable)