

Die volgende is ’n werkkaart soos voorsien deur die VAW.

Instruksie: Voltooi dié werkkaart in jou werkboek as ’n Hersieningsoefening van Hoofstuk 2.

Opskrif: Hersieningsoefening 7

EkspONENTE - Inoefening van basiese beginsels

Vraag 1: Vereenvoudig

[9]

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|-----|--------------------|-----|-----|-------------------------------|-----|
| 1.1 | $3^x \cdot 3$ | (1) | 1.6 | $\frac{a^3}{a^7}$ | (1) |
| 1.2 | $x^2 \cdot x^5$ | (1) | 1.7 | $\frac{4^x}{4^y}$ | (1) |
| 1.3 | $m^{3x} \cdot m^x$ | (1) | 1.8 | $\frac{x^2 y^5 x^3}{x^4 y^6}$ | (2) |
| 1.4 | $3^2 \cdot 3^5$ | (1) | | | |
| 1.5 | $\frac{x^3}{x}$ | (1) | | | |

Vraag 2: Vereenvoudig

[10]

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|-----|------------------------------|-----|-----|-----------------------|-----|
| 2.1 | $(x^3)^4$ | (1) | 2.5 | $(xy)^3$ | (1) |
| 2.2 | $(a^2 b^3)^2$ | (1) | 2.6 | $2^x 3^x$ | (1) |
| 2.3 | $\left(\frac{2}{3}\right)^2$ | (1) | 2.7 | $\frac{(2a)^3}{2a^3}$ | (2) |
| 2.4 | $\left(\frac{x}{y}\right)^3$ | (1) | 2.8 | $(x^{16})^{1/4}$ | (1) |
| | | | 2.9 | $(3x^2 y)^2$ | (1) |

Vraag 3

[11]

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|-----|----------------------------|-----|-----|---|-----|
| 3.1 | $27^{1/3}$ | (2) | 3.5 | $\left(\frac{1}{2}\right)^{-1} \times 2^{-1}$ | (2) |
| 3.2 | 3^{-1} | (1) | 3.6 | $\sqrt[3]{x^6}$ | (2) |
| 3.3 | $(a^3)^0$ | (1) | 3.7 | $2x^0 + (2x)^0$ | (1) |
| 3.4 | $\frac{3a^{-2}}{-6a^{-1}}$ | (2) | | | |

Totaal: [30]