WORKSHEET

Name: ..... Class: .....

Date: .....

MARK ____ / 24

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Simplify $x^4 \cdot x^3$ *(Law 1)* (1)

2 Simplify $3a^2 \cdot 4a^5$ *(Law 1)* (2)

3 Simplify $m^8 \div m^3$ *(Law 2)* (1)

4 Simplify $\frac{20x^6}{5x^2}$ *(Law 2)* (2)

5 Simplify $(a^3)^2$ *(Law 3)* (1)

6 Simplify $(2y^4)^3$ *(Law 4)* **(2)**

7 Simplify $(3x^2)^2$ *(Law 4)* **(2)**

8 Evaluate $7x^0$, where $x \neq 0$ *(Law 5)* **(1)**

9 Evaluate $(5y)^0$, where $y \neq 0$ *(Law 5)* **(1)**

10 Write $4x^{-2}$ with a positive exponent *(Law 6)* **(2)**

11 Simplify $(2x^3)^2 \cdot x$ *(combined)* **(2)**

12 Simplify $\frac{12a^5b^2}{4a^2b^6}$ *(combined)* **(3)**

13 Write $3\ 200\ 000$ in scientific notation **(2)**

14 Write $0{,}0007$ in scientific notation **(2)**

TOTAL: 24 marks

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