Negative Exponents & Scientific Notation (Grade 9)

WORKSHEET

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

Date: .....

MARK ____ / 12

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

1 Write 3^{-2} as a fraction. **(1)**

2 Write 2^{-4} as a fraction. **(1)**

3 Write $\frac{1}{x^5}$ using a negative exponent. **(1)**

4 Simplify: $y^3 \div y^7$ (positive exponents only). **(2)**

5 Calculate: 10^{-3} **(1)**

6 Write $62\ 000\ 000$ in scientific notation. **(2)**

7 Write $0{,}0045$ in scientific notation. **(2)**

8 Write $3{,}1 \times 10^{-2}$ as an ordinary number. **(1)**

9 Write $8{,}04 \times 10^{5}$ as an ordinary number. **(1)**

TOTAL: 12 marks

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