Practice worksheet | Indices and scientific notation

Index laws with variables

Name: _____ Date: _____

6 questions | 12 marks

1. Simplify x^3x^5. [1 mark]

2. Simplify $2a^2 \times 5a^4$. [2 marks]

3. Simplify $(3x^2)^3$. [2 marks]

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4. Write $\frac{8p^2}{4p^5}$ with positive exponents, for $p \neq 0$. [2 marks]

5. Simplify $\frac{15x^4y^3}{5xy^2}$ for $x, y \neq 0$. [2 marks]

6. A student writes $(2xy)^3 = 2x^3y^3$. Correct the answer and explain. [3 marks]