Practice worksheet | Index laws

Powers of powers

Name: _____ Date: _____

6 questions | 13 marks

1. Write $(5^2)^3$ as one power. [2 marks]

2. Write $(3^4)^2$ as one power. [2 marks]

3. Write $(10^3)^2$ as one power. [2 marks]

4. Evaluate $(2^2)^3$. [2 marks]

5. Evaluate $((-2)^3)^2$. [2 marks]

6. Find n if $(4^2)^n = 4^8$. [3 marks]