Practice worksheet | Index laws

Combining numerical index laws

Name: _____ Date: _____

6 questions | 14 marks

1. Simplify $\frac{(5^2)^3}{5^4}$ and evaluate. [2 marks]

2. Simplify $\frac{2^3 \times 2^4}{2^5}$ and evaluate. [2 marks]

3. Simplify $\frac{(10^2)^3 \times 10^0}{10^4}$ and evaluate. [2 marks]

4. Simplify $\frac{(4^3 \div 4)^2}{4^2}$ and evaluate. [3 marks]

5. Evaluate $(6^2)^2 \div 6^4$. [2 marks]

6. Explain the error in $(2^3)^2 = 2^5$ and give the correct value. [3 marks]