EXCELSIOR HIGH SCHOOL

**Mathematics** **Grade 9**

## Laws of Indices Worksheet 1

### Activity 1

**Use the laws of Indices to simplify the following and show all working, leaving your answers in index form.**

a. $10^8 \times 10^4$

b. $(11^5)^4$

c. $8^6 \div 8^3$

d. $(12^2)^3 \times 12^4$

e. $(13^4)^2 \div 13^5$

f. $(5^2 \times 5^3) \div 5^4$

g. $18^4 \div 18^6$

h. $(19^2)^4 \div 19^8$

LIVEWORKSHEETS