

EMIRATES ENGLISH SPEAKING SCHOOL, DUBAI

HOLIDAY HOMEWORK- GRADE-7

EXPONENTS AND POWERS-2

Name: _____

Division: _____

1. Simplify and express each of the following in exponential form using laws of exponents.

a) $2^2 \times 2^4 \times 2^5$ = _____

b) $7^{12} \div 7^4$ = _____

c) $(4^2)^3$ = _____

d) $2^3 \times 5^3$ = _____

e) $a^4 \times a^7$ = _____

f) $5^{12} \div 5^4$ = _____

2. Say true or false and justify your answer.

a) $3^4 \times 6^2 = 18^6$ _____

b) $7^4 \div 7^2 = 7^2$ _____

c) $4^0 = 0$ _____

d) $5^2 > 2^5$ _____

e) $9^3 \times 9^6 = 9^9$ _____

f) $2^4 \times 2^5 = 2^{20}$ _____

g) $(a^x)^y = a^{xy}$ _____

h) $6^2 < 2^6$ _____