Name: .... Class: ....

Understanding exponents

a. **Which of the following is equal to 5 x 5 ?**

☐ 5^2 ☐ 5^1 ☐ 5^3 ☐ 5^4

b. **Which of the following is equal to 3^5 ?**

☐ 3 x 3   ☐ 3 x 3 x 3 x 3 x 3   ☐ 3   ☐ 3 x 3 x 3 x 3 x 3 x 3 x 3

c. **Which of the following is equal to 6^{11} ?**

☐ 6 x 11   ☐ 6 x 6 x 6   ☐ 6 x 1   ☐ 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6 x 6

d. **Which of the following is equal to 10^1 ?**

☐ 10   ☐ 10 x 10   ☐ 1   ☐ 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1

e. **Which of the following is equal to 8 x 8 x 8 x 8 ?**

☐ 8 x 8   ☐ 8^4 ☐ 8   ☐ 8 x 8 x 8 x 8 x 8 x 8 x 8

f. **Evaluate the following exponent expressions.**

12^2 =   7 x 7 x 7 x 7 x 7 x 7 x 7 x 7 x 7 x 7 =

2^0 =   13 x 13 x 13 =

20^1 =   11 x 11 x 11 x 11 x 11 x 11 x 11 =

9^5 =   15 x 15 x 15 x 15 =

10 x 10 x 10 =   50 x 50 =

mathskills4kids

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e. **Which of the following is equal to 8 x 8 x 8 x 8 ?**

☐ 8 x 8   ☑ 8^4 ☐ 8   ☐ 8 x 8 x 8 x 8 x 8 x 8 x 8

f. **Evaluate the following exponent expressions.**

12^2 =   12 x 12

2^0 =   1

20^1 =   20

9^5 =   9 x 9 x 9 x 9 x 9

10 x 10 x 10 = 10^3

7 x 7 x 7 x 7 x 7 x 7 x 7 x 7 x 7 x 7 = 7^{10}

13 x 13 x 13 = 13^3

11 x 11 x 11 x 11 x 11 x 11 x 11 = 11^7

15 x 15 x 15 x 15 = 15^4

50 x 50 = 50^2