

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

## Understanding exponents

a. Which of the following is equal to  $5 \times 5$  ?  $5^2$       $5^1$       $5^3$       $5^4$ b. Which of the following is equal to  $3^5$  ?  $3 \times 3$       $3 \times 3 \times 3 \times 3 \times 3$      3      $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$ c. Which of the following is equal to  $6^{11}$  ?  $6 \times 11$       $6 \times 6 \times 6$       $6 \times 1$       $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$ d. Which of the following is equal to  $10^1$  ? 10      $10 \times 10$      1      $1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1$ e. Which of the following is equal to  $8 \times 8 \times 8 \times 8$  ?  $8 \times 8$       $8^4$      8      $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$ 

f. Evaluate the following exponent expressions.

$12^2 =$

$7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 =$

$2^0 =$

$13 \times 13 \times 13 =$

$20^1 =$

$11 \times 11 \times 11 \times 11 \times 11 \times 11 \times 11 =$

$9^5 =$

$15 \times 15 \times 15 \times 15 =$

$10 \times 10 \times 10 =$

$50 \times 50 =$

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a.	Which of the following is equal to $5 \times 5$ ?			
	<input checked="" type="checkbox"/> $5^2$	<input type="checkbox"/> $5^1$	<input type="checkbox"/> $5^3$	<input type="checkbox"/> $5^4$
b.	Which of the following is equal to $3^5$ ?			
	<input type="checkbox"/> $3 \times 3$	<input checked="" type="checkbox"/> $3 \times 3 \times 3 \times 3 \times 3$	<input type="checkbox"/> 3	<input type="checkbox"/> $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$
c.	Which of the following is equal to $6^{11}$ ?			
	<input type="checkbox"/> $6 \times 11$	<input type="checkbox"/> $6 \times 6 \times 6$	<input type="checkbox"/> $6 \times 1$	<input checked="" type="checkbox"/> $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$
d.	Which of the following is equal to $10^1$ ?			
	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> $10 \times 10$	<input type="checkbox"/> 1	<input type="checkbox"/> $1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1$
e.	Which of the following is equal to $8 \times 8 \times 8 \times 8$ ?			
	<input type="checkbox"/> $8 \times 8$	<input checked="" type="checkbox"/> $8^4$	<input type="checkbox"/> 8	<input type="checkbox"/> $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$
f.	Evaluate the following exponent expressions.			
	$12^2 = 12 \times 12$		$7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 = 7^{10}$	
	$2^0 = 1$		$13 \times 13 \times 13 = 13^3$	
	$20^1 = 20$		$11 \times 11 \times 11 \times 11 \times 11 \times 11 \times 11 = 11^7$	
	$9^5 = 9 \times 9 \times 9 \times 9 \times 9$		$15 \times 15 \times 15 \times 15 = 15^4$	
	$10 \times 10 \times 10 = 10^3$		$50 \times 50 = 50^2$	