Exponent Worksheets

Directions: Simplify each expression using the laws of exponents. Use the least number of bases possible and only positive exponents. All letters denote numbers.

#	Expression		#	Expression	
1.	$2^2 \cdot 2^3 =$		23.	$6^3 \cdot 6^2 =$	
2.	$2^2 \cdot 2^4 =$		24.	$6^2 \cdot 6^3 =$	
3.	$2^2 \cdot 2^5 =$		25.	$(-8)^3 \cdot (-8)^7 =$	
4.	$3^7 \cdot 3^1 =$		26.	$(-8)^7 \cdot (-8)^3 =$	
5.	$3^8 \cdot 3^1 =$		27.	$(0.2)^3 \cdot (0.2)^7 =$	
6.	$3^9 \cdot 3^1 =$		28.	$(0.2)^7 \cdot (0.2)^3 =$	
7.	$7^6 \cdot 7^2 =$		29.	$(-2)^{12} \cdot (-2)^1 =$	
8.	$7^6 \cdot 7^3 =$		30.	$(-2.7)^{12} \cdot (-2.7)^1 =$	
9.	$7^6 \cdot 7^4 =$		31.	$1.1^6 \cdot 1.1^9 =$	
10.	$11^{15} \cdot 11 =$		32.	$57^6 \cdot 57^9 =$	
11.	$11^{16} \cdot 11 =$		33.	$x^6 \cdot x^9 =$	
12.	$2^{12} \cdot 2^2 =$		34.	$2^7 \cdot 4 =$	
13.	$2^{12} \cdot 2^4 =$		35.	$2^7 \cdot 4^2 =$	
14.	$2^{12} \cdot 2^6 =$		36.	$2^7 \cdot 16 =$	
15.	$99^5 \cdot 99^2 =$		37.	$16 \cdot 4^3 =$	
16.	$99^6 \cdot 99^3 =$		38.	$3^2 \cdot 9 =$	
17.	$99^7 \cdot 99^4 =$		39.	$3^2 \cdot 27 =$	
18.	$5^8 \cdot 5^2 =$		40.	$3^2 \cdot 81 =$	
19.	$6^8 \cdot 6^2 =$		41.	$5^4 \cdot 25 =$	
20.	$7^8 \cdot 7^2 =$		42.	$5^4 \cdot 125 =$	
21.	$r^8 \cdot r^2 =$		43.	$8 \cdot 2^9 =$	
22.	$s^8 \cdot s^2 =$		44.	$16 \cdot 2^9 =$	

Go to for more free math resources

Exponent Worksheets

1.	$2^2 \cdot 2^3 =$	2^5
2.	$2^2 \cdot 2^4 =$	2^6
3.	$2^2 \cdot 2^5 =$	2^7
4.	$3^7 \cdot 3^1 =$	3^8
5.	$3^8 \cdot 3^1 =$	3^9
6.	$3^9 \cdot 3^1 =$	3^{10}
7.	$7^6 \cdot 7^2 =$	7^8
8.	$7^6 \cdot 7^3 =$	7^9
9.	$7^6 \cdot 7^4 =$	7^{10}
10.	$11^{15} \cdot 11 =$	11^{16}
11.	$11^{16} \cdot 11 =$	11^{17}
12.	$2^{12} \cdot 2^2 =$	2^{14}
13.	$2^{12} \cdot 2^4 =$	2^{16}
14.	$2^{12} \cdot 2^6 =$	2^{18}
15.	$99^5 \cdot 99^2 =$	99^7
16.	$99^6 \cdot 99^3 =$	99^9
17.	$99^7 \cdot 99^4 =$	99^{11}
18.	$5^8 \cdot 5^2 =$	5^{10}
19.	$6^8 \cdot 6^2 =$	6^{10}
20.	$7^8 \cdot 7^2 =$	7^{10}
21.	$r^8 \cdot r^2 =$	r^{10}
22.	$s^8 \cdot s^2 =$	s^{10}

23.	$6^3 \cdot 6^2 =$	6^5
24.	$6^2 \cdot 6^3 =$	6^5
25.	$(-8)^3 \cdot (-8)^7 =$	$(-8)^{10}$
26.	$(-8)^7 \cdot (-8)^3 =$	$(-8)^{10}$
27.	$(0.2)^3 \cdot (0.2)^7 =$	$(0.2)^{10}$
28.	$(0.2)^7 \cdot (0.2)^3 =$	$(0.2)^{10}$
29.	$(-2)^{12} \cdot (-2)^1 =$	$(-2)^{13}$
30.	$(-2.7)^{12} \cdot (-2.7)^1 =$	$(-2.7)^{13}$
31.	$1.1^6 \cdot 1.1^9 =$	1.1^{15}
32.	$57^6 \cdot 57^9 =$	57^{15}
33.	$x^6 \cdot x^9 =$	x^{15}
34.	$2^7 \cdot 4 =$	2^9
35.	$2^7 \cdot 4^2 =$	2^{11}
36.	$2^7 \cdot 16 =$	2^{11}
37.	$16 \cdot 4^3 =$	4^5
38.	$3^2 \cdot 9 =$	3^4
39.	$3^2 \cdot 27 =$	3^5
40.	$3^2 \cdot 81 =$	3^6
41.	$5^4 \cdot 25 =$	5^6
42.	$5^4 \cdot 125 =$	5^7
43.	$8 \cdot 2^9 =$	2^{12}
44.	$16 \cdot 2^9 =$	2^{13}