

Match-Up	Laws of Indices
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Find the missing power n in each of the statements.

1	$5^2 \times 5^n = 5^8$	7	$\frac{(7^3)^n}{7^2} = 7^{10}$	13	$(-2)^{1.5} = \frac{(-2)^2}{(-2)^n}$
2	$8^n \div 8^3 = 8^4$	8	$\frac{5^5 \times 5^n}{5^{12}} = 5$	14	$(7^{-2})^n = 7$
3	$10^n \times 10 = 10^3$	9	$6^3 \times (6^2)^n = 6^{21}$	15	$\frac{3^n \times 3}{3^{-3}} = 3^{-5}$
4	$\frac{9^6}{9^n} = 9$	10	$\frac{3^8}{3^n} = 3^{10}$	16	$(6^{1/2})^n = \frac{6}{6^3}$
5	$(2^6)^n = 2^{18}$	11	$9^{1.5} \times 9^n = 9^4$	17	$\frac{4^{2n}}{4^{-3}} = 4^n$
6	$4^2 \times 4^n \times 4^3 = 4^{15}$	12	$2^{-4} = (2^{1/2})^n$	18	$5^n \times 5^{n-1} = (5^3)^n$

A	$n = 8$	G	$n = 9$	M	$n = 10$
B	$n = 2$	H	$n = -4$	N	$n = -2$
C	$n = -0.5$	I	$n = 6$	O	$n = 0.5$
D	$n = -3$	J	$n = 3$	P	$n = -1$
E	$n = 5$	K	$n = -8$	Q	$n = 7$
F	$n = 2.5$	L	$n = -9$	R	$n = 4$

[illegible]