

## Exponent and Power

1	Find the value of $x$ . If $2^x = \frac{1}{32}$ .	2	$7^5 = \frac{1}{7^{\square}}$ $1^3 + 1^{-3} = ?$
3	$\left(\frac{2}{5}\right)^5 \times \left(\frac{2}{5}\right)^{-3} = ?$	4	$\left(\frac{-2}{5}\right)^2 \times \left(\frac{5}{2}\right)^2 = \underline{\hspace{2cm}}$
5	Find the value of $x$ , when $2^x = 4^3$	6	How much is $(\sqrt{5})^5 \div (\sqrt{5})^3$ ?
7	If $(x^5 \times x^{-2})^2 = 64$ , what is $x$ ?	8	Find the value $(2^{11} + 3^2 - 5^1)^0$ .
9	Find the value of $x$ . If $2^x = \frac{1}{32}$ .	10	If $2^x \times 5^x = 1000$ , then $x = ?$
11	If $5^{2x-6} = 1$ then $x = ?$	12	Find the value of $x$ if $2^{3x} = 64$ .
13	What is $x$ if $29^x = 1$ ?	14	If $216^x = 6$ then find $x$ .
15	Find $8.469 \times 10^3$ , $724.9 \times 10^3$ , $72.48 \times 10^{-3}$ <b>and</b> $5 \times 10^{-3}$ in usual form.	16	Find the value of $\left(\frac{3}{-2}\right)^3 + \left(\frac{2}{3}\right)^{-4}$ .
17	Find the missing number $x$ in : $5^2 + x^2 = 13^2$	18	Find in the form of positive exponent $(x^{-4})^3$
19	Find in exponent form $2^5 \times 2^7 \times 2^{-3}$	20	Find the value of $(4^3 + 12^2)$ .
21	Find in the form of positive exponent $5^4 \times 5^{-6}$	22	Simplify in exponent form $(3^4 \times 3^2) + 3^{-4}$ .
23	Simplify in exponent form $(3^4 \times 3^2) + 3^{-4}$ .	24	Simplify in exponent form $(2^{-3} \times 2^6) \div 2^5$ .
25	Simplify in exponent form $2^{-3} \times 2^5 \times 5^2$ .	26	Find the value of $(2^{-1} + 3^{-1})^2$ .
27	Find the value of $a$ if $(-2)^{3a+1} \times (-2)^4 = (-2)^8$ .	28	Find the value of $\frac{6^7 - 6^9}{6^5}$ .
29	Simplify in exponent form. $(a^7 + a^{-5}) \times a^{-2}$ .	30	Find the value of $m$ if $5^{2m-1} \times 5^1 = 25$ .