

ÜSLÜ SAYILARLA İLGİLİ SORULAR

$$1- \frac{(-1)^{202}(-1)^{301} + (-1)^{299}}{(-1)^{99}(-1)^{101} + (-1)^{100}} = ?$$

$$2- \left(\frac{4}{3}\right)^{-2} : \left(\frac{2}{3}\right)^{-3} = ?$$

$$3- 21,8 \cdot 10^4 + 0,22 \cdot 10^{12} = ?$$

$$4- 0,8 \cdot 10^7 + 12 \cdot 10^6 - 40 \cdot 10^5 = ?$$

$$5- \left. \begin{array}{l} 2^x = k \\ 3^x = n \\ 5^x = m \end{array} \right\} 150^x \text{ in deęerini } k, n, m \text{ cinsinden bulunuz.}$$

$$6- \left(\frac{5}{7}\right)^x \cdot \left(\frac{7}{5}\right)^x = ?$$

$$7- 16^5 \cdot 25^{10} \text{ iřleminin sonucu kaętır. Kaę basamaklıdır?}$$

$$8- \frac{25^5 \cdot 125^4}{625^2} \text{ iřlemin sonucu 5 cinsinden bulunuz.}$$

$$9- \frac{2^8 \cdot 8^4}{16^4} = ? \quad (2 \text{ cinsinden})$$

$$10- \frac{9^4 \cdot 27^2}{81^3} = ? \quad (3 \text{ cinsinden})$$

$$11- \left. \begin{array}{l} m = 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \\ n = 5 + 5 + 5 + 5 + 5 \end{array} \right\} \frac{m}{n} = ?$$

$$12- \left. \begin{array}{l} A = \frac{5^4 \cdot 5^3}{25} \\ B = \frac{25^2 \cdot 5^4}{125} \end{array} \right\} \frac{B}{A} = ?$$

13- Ařaęıdaki sayıları bilimsel olarak gsterin

- 0,0000245
- 427,8234
- 8261,716 \cdot 10^{12}
- 54632,82 \cdot 10^{-10}

$$14- \left(\frac{2}{5}\right)^{-2} + 27 \cdot \left(-\frac{3}{4}\right)^{-3} = ?$$

$$15- \frac{10^6 + 10^6 + 10^6 + 10^6}{5^6 + 5^6 + 5^6 + 5^6} = ?$$

$$16- \left. \begin{array}{l} 2^x = m \\ 3^x = n \end{array} \right\} 432^x = ?$$

17- 2^{2002} sayısının $1/4$ 'ü kaętır.

$$18- 2^x = 3 \text{ ise } 8^x - 4^x = ?$$

$$19- \frac{(2^2 \cdot 3^3) + (2^3 \cdot 3^2)}{6^2} = ?$$

$$20- 0,083 \cdot 10^{-5} = A \cdot 10^{-7} \text{ ise } A = ?$$

$$21- 3 \cdot 5^3 + 2 \cdot 5^3 + 7 \cdot 5^3 + 13 \cdot 5^3 = ?$$

$$22- \frac{11^2}{118} \cdot \left(1 - \frac{1}{119}\right) \cdot \left(1 - \frac{1}{120}\right) \cdot \left(1 - \frac{1}{121}\right) = ?$$

23- Ařaęıdaki iřlemleri yapınız.

$$\begin{aligned} 10^5 \cdot 10^2 \cdot 10^{-4} &= ? \\ 6^6 \cdot 6^{-5} &= ? \\ (x^2 \cdot y^3 \cdot z) \cdot (x \cdot y^2 \cdot z^{-1}) &= ? \\ 5^2 \cdot 5^4 \cdot 5^{-3} &= ? \\ (2^x \cdot 3^{-2}) \cdot (2^{3-x} \cdot 3^2) &= ? \\ (0,2)^3 \cdot (0,2)^1 &= ? \\ a^{2-x} \cdot a^{x-2} &= ? \\ (4^{-1} \cdot b^3 \cdot c^3) \cdot (8 \cdot b^{-3} \cdot c^1) &= ? \\ 4 \cdot 6^{-a} &= ? \end{aligned}$$

$$24- 2^a = 5 \text{ ise } 2^{a+3} = ?$$

$$25- 5^x = 25^2 \rightarrow x = ?$$

$$26- \left. \begin{array}{l} 2^a = x \\ 3^a = y \end{array} \right\} \rightarrow 6^{a+2} = ?$$

$$27- \left. \begin{array}{l} 4^x = a \\ 3^x = b \end{array} \right\} \rightarrow 12^{x-1} = ?$$

$$28- 2^x = 5 \text{ ise } 8^x = ?$$

$$29- \left. \begin{array}{l} 2^a = c \\ 5^a = d \end{array} \right\} \Rightarrow 10^{a+10} = ?$$

$$30- \left. \begin{array}{l} 3^x = a \\ 5^x = b \end{array} \right\} \rightarrow 75^x = ?$$

$$31- 2^8 = 16^x \rightarrow x = ?$$

$$32- \left. \begin{array}{l} 2^x = a \\ 5^x = b \end{array} \right\} \rightarrow 20^x = ?$$

33- $1034 \cdot 5^6 \cdot 2^6$ sayısı kaę basamaklıdır.

34- $17 \cdot 5^2 \cdot 32$ kaę basamaklıdır.

35- $6000000 \cdot 15 \cdot 0000$ sayısı kaę basamaklıdır.

36- $36 \cdot 10^n$ sayısı 10 basamaklı ise $n = ?$

$$37- \frac{(-4) + (-4) + \dots + (-4)}{8 \text{ tane}} = ?$$

$$38- \frac{(-3) \cdot (-3) \cdot \dots \cdot (-3)}{5 \text{ tane}} = ?$$

$$39- \left(-\frac{1}{3}\right)^{-2} : (-3)^3 = ?$$

$$40- \frac{2^{-1} + 3}{3^{-1} + 2} : 4^{-1} = ?$$

$$41- \frac{6^{-11} + 6^{-10}}{6^{-12}} = ?$$

$$42- \left[\left(-\frac{1}{3}\right)^{-2} \right]^{-x} = ?$$

$$44- \frac{(0,1)^3 + (0,2)^4}{0,26 \cdot 10^{-3}} = ?$$

$$45- \frac{(-2)^{100} - \left(\frac{1}{2}\right)^{100}}{\left(-\frac{1}{2}\right)^{100} - (2)^{100}} = ?$$

$$46- \left(\frac{10^{20} + 10^{20} + 10^{20}}{10^{21} - 10^{20}}\right)^{-1} = ?$$

$$47- \frac{16^8 + 8^8}{\left(-\frac{1}{2}\right)^{-20}} = ?$$

$$48- \frac{2,25 \cdot 10^{-8}}{(1,5)^2 \cdot (0,01)^4} = ?$$

$$50- \frac{4^{a-1} \cdot 16^{2a}}{32^{2a}} = ?$$

$$51- (32)^{1-x} = \frac{1}{8^{x-1}}, x = ?$$

$$52- \frac{64 \cdot 10^6 - 246 \cdot 10^5 + 32 \cdot 10^6}{2 \cdot 10^5} = ?$$

$$53- \frac{28 \cdot 10^6 - 1,6 \cdot 10^7}{0,5 \cdot 10^5} = ?$$

$$54- \frac{3 \cdot 10^4 - 0,2 \cdot 10^5}{2 \cdot 10^4 - 10^4} = ?$$

$$55- \frac{124 \cdot 10^6 + 2,36 \cdot 10^8}{12 \cdot 10^4 \cdot 2 \cdot 10^3} = ?$$

$$56- 12 \cdot 10^{-21} + 18 \cdot 10^{-21} = ?$$

$$57- 15 \cdot 10^8 + 11 \cdot 10^7 - 28 \cdot 10^6 = ?$$

$$58- 36 \cdot 10^{24} - 2,6 \cdot 10^{-3} = ?$$