

Vegyes feladatok – Hatványozás

1. Mely számok kerülnek a betűk helyére?

$$354 \cdot 10^x = 35\,400\,000$$

$$x =$$

$$x \cdot 10^2 = 12,5$$

$$x =$$

$$0,12 \cdot 10^5 = a$$

$$a =$$

$$0,025 \cdot y = 2500$$

$$y =$$

$$p \cdot 10^4 = 1,205$$

$$p =$$

$$0,00032 \cdot 10^7 = z$$

$$z =$$

$$56\,000 : x = 5,6$$

$$x =$$

$$345,6 : 10^3 = y$$

$$y =$$

$$7,3 : z = 0,00073$$

$$z =$$

$$900\,500 : 10^5 = b$$

$$b =$$

$$c : 10^4 = 0,0015$$

$$c =$$

$$375\,000 : k = 0,00375$$

$$k =$$

$$5^{11} \cdot 5^3 = 5^a$$

$$a =$$

$$7^2 \cdot 7^3 \cdot 7^5 = 7^b$$

$$b =$$

$$6^{11} : 6^3 = 6^a$$

$$a =$$

$$7^2 \cdot 7^3 : 7^5 = 7^b$$

$$b =$$

$$10 \cdot 10^2 \cdot 10^2 \cdot 10^5 = 10^c$$

$$c =$$

$$11^3 \cdot 11^d \cdot 11^5 = 11^{13}$$

$$d =$$

$$10 \cdot 10^9 : 10^2 \cdot 10^5 = 10^c$$

$$c =$$

$$11^3 \cdot 11^d : 11^5 = 11^{13}$$

$$d =$$

$$2^x \cdot 2^x = 2^{16}$$

$$x =$$

$$2^{20} : 2^x = 2^{12}$$

$$x =$$

$$6^f \cdot 6^f \cdot 6^f = 6^{12}$$

$$f =$$

$$6^{15} : 6^f : 6^2 = 6^{12}$$

$$f =$$

2. Melyik nagyobb?

2^{12}	4^8
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3^{12}	9^8
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2^{15}	8^6
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6^8	3^{16}
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8^8	3^{16}
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4^5	10^3
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2^{10}	10^3
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2^{20}	10^6
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4^{10}	10^6
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5^9	125^3
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