Related calculations to keep the same result

$60 \times 20 = 1200$

$\times 10$ ↓ $\div 10$ ↓

$600 \times 2 = 1200$

$60 \div 20 = 3$

$\div 10$ ↓ $\div 10$ ↓

$6 \div 2 = 3$

Index Laws

$$\frac{1}{10^6} = 10^{-6}$$

$$10^5 \times 10 = 10^6$$

Convert each calculation into standard form

Section 1

32×10^7

320×10^7

0.32×10^7

$3.2 \div 10^7$

$32 \div 10^7$

$0.32 \div 10^7$

Section 2

860×10^6

$41 \div 10^3$

96×10^9

702×10^4

$62.9 \div 10^2$

92.02×10^{-4}

739.03×10^6

$90.8 \div 10^{-2}$

21×10^{-1}

$0.07 \div 10^3$

0.88×10^7

$4.1 \div 10^3$

$0.028 \div 10^9$

0.07×10^1

$5.01 \div 10^{-6}$

$0.109 \div 10^5$

0.19×10^3

$34.03 \div 10^{-2}$

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$\frac{1}{10^6} = 10^{-6}$

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Convert each calculation into standard form

Section 1

$32 \times 10^7 = 3.2 \times 10^8$

$320 \times 10^7 = 3.2 \times 10^9$

$0.32 \times 10^7 = 3.2 \times 10^6$

$3.2 \div 10^7 = 3.2 \times 10^{-7}$

$32 \div 10^7 = 3.2 \times 10^{-6}$

$0.32 \div 10^7 = 3.2 \times 10^{-8}$

Section 2

$860 \times 10^6 = 8.6 \times 10^8$

$41 \div 10^3 = 4.1 \times 10^{-4}$

$96 \times 10^9 = 9.6 \times 10^{10}$

$702 \times 10^4 = 7.02 \times 10^6$

$62.9 \div 10^2 = 6.29 \times 10^{-1}$

$92.02 \times 10^{-4} = 9.202 \times 10^{-3}$

$739.03 \times 10^6 = 7.3903 \times 10^8$

$90.8 \div 10^{-2} = 9.08 \times 10^3$

$21 \times 10^{-1} = 2.1 \times 10^0$

$0.07 \div 10^3 = 7 \times 10^{-4}$

$0.88 \times 10^7 = 8.8 \times 10^6$

$4.1 \div 10^3 = 4.1 \times 10^{-3}$

$0.028 \div 10^9 = 2.8 \times 10^{-11}$

$0.07 \times 10^1 = 7 \times 10^{-1}$

$5.01 \div 10^{-6} = 5.01 \times 10^6$

$0.109 \div 10^5 = 1.09 \times 10^{-6}$

$0.19 \times 10^3 = 1.9 \times 10^2$

$34.03 \div 10^{-2} = 3.403 \times 10^{-1}$