**ΜΕΤΑΡΟΠΕΣ**

**Προθέματα**

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| **Όνομα** | **Σύμβολο** | **Σχέση με το μέτρο (m)****ΑΝΕΒΑΙΝΩ ΔΙΑΡΩ ÷****ΚΑΤΕΒΑΙΝΩ ΠΟΛΛΑΠΛΑΣΙΑΖΩ Χ** |
| τερα | Tm | 1 Tm =1.000.000.000.000 m = 1012 m |
| Giga | Gm | 1 Gm = 1.000.000.000 m = 109 m |
| Mega | Mm | 1 Mm = 1.000.000 m = 106 m |
| kiloχιλιόμετρο | km | 1 km = 1.000 m = 103 m |
| Μέτρο | m | 1 m = 100 m  |
| desiδεκατόμετρο | dm | 1 dm = $\frac{1}{10} $m =0,1m = $\frac{1}{10^{1}} $m = 10-1 m  |
| centiεκατοστόμετρο | cm | 1cm = $\frac{1}{100} $m =0,01m =  $\frac{1}{10^{2}} $m = 10-2 m  |
| miliχιλιοστόμετρο | mm | 1mm = $\frac{1}{1.000} $m =0,001m = $\frac{1}{10^{3}} $m = 10-3 m  |
| μικρομικρόμετρο | μm | 1μm = $\frac{1}{1.000.000}$m = 0,000001 m = $\frac{1}{10^{6}} $m = 10-6 m  |
| nanoνανόμετρο | nm | 1nm = $\frac{1}{1.000.000.000} $m=0,000000001m = $\frac{1}{10^{9}} $m = 10-9 m |

Παραδείγματα μετατροπών:

α) 5 km = 5∙1000 m = 5000 m = 5 ∙103 m

β) 5,3 dm = 5,3 ∙$ \frac{1}{10} $m = 0,53 m = 53 ∙10-2 m

γ) 75 cm = 75 ∙$ \frac{1}{100} $m = 0,75m = 75 ∙10-2 m

δ) 400 mm = 400 ∙$ \frac{1}{ 1000} $m = 0,4m = 4 ∙10-1 m

ε) 120 μm = 120 ∙$ \frac{1}{1.000.000} $m = 0,00012m = 12∙10-5 m

ζ) 5,2 m = 5,2 ∙100 cm = 520 cm

η) 480 mm = 480 ∙$ \frac{1}{10} $cm = 48 cm

θ) 0,01 km = 0,01∙1000 m= 10 m

ι) 1000 μC = 103 μC = 103 ∙ 10-6 C = 103-6 C = 10-3 C

κ) 0,000005 nC = 5 ∙ 10-6 nC = 5 ∙ 10-6 ∙ 10-9 C = 5 ∙ 10-6-9 C = 5 ∙ 10-15 C

λ) 0,0006 C = 6 ∙ 10-4 C = 6 ∙ 10-4 ∙ 106 μC = 6 ∙ 10-4+6 μC =6 ∙ 102 μC=600 μC

μ) 0,0006 C = 6 ∙ 10-4 C = 6 ∙ 10-4 ∙ 109 nC = 6 ∙ 10-4+9 nC = 6 ∙ 105 nC

ν) 0,1 μC = 0,1 ∙ 1000 nC = 100 nC

ξ) 10.000 nC = $\frac{10.000}{1.000}$ μC = 10 μC