



Mock Exam	Préfixes, notation scientifique, inversion de formules
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G			M			k	h	da	1	d	c	m				μ			n
							0.01	0.1	1	10	100								

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 $\div 10$ $\cdot 10$

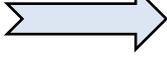
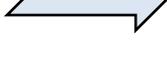
Exercice 1 (14 points) Transformer dans l'unité demandée :

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| <p>a) 3 500 mm = <input style="width: 150px; height: 25px;" type="text"/> hm</p> <p>b) 0.02 m = <input style="width: 150px; height: 25px;" type="text"/> μm</p> <p>c) 3 400 km = <input style="width: 150px; height: 25px;" type="text"/> Gm</p> <p>d) 3 ng = <input style="width: 150px; height: 25px;" type="text"/> g</p> <p>e) 4.56 μg = <input style="width: 150px; height: 25px;" type="text"/> hg</p> <p>f) 450 hs = <input style="width: 150px; height: 25px;" type="text"/> Gs</p> <p>g) 8.4 ms = <input style="width: 150px; height: 25px;" type="text"/> ks</p> | <p>h) 840 ms = <input style="width: 150px; height: 25px;" type="text"/> ks</p> <p>i) 45 hs = <input style="width: 150px; height: 25px;" type="text"/> Gs</p> <p>j) 45.6 μg = <input style="width: 150px; height: 25px;" type="text"/> hg</p> <p>k) 30 ng = <input style="width: 150px; height: 25px;" type="text"/> g</p> <p>l) 340 km = <input style="width: 150px; height: 25px;" type="text"/> Gm</p> <p>m) 0.002 m = <input style="width: 150px; height: 25px;" type="text"/> μm</p> <p>n) 370 mm = <input style="width: 150px; height: 25px;" type="text"/> hm</p> |
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Exercice 2 (6 points) Écrire les nombres suivants en notation scientifique :

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| <p>a) 7 400 = <input style="width: 150px; height: 25px;" type="text"/></p> <p>b) 0.00006 = <input style="width: 150px; height: 25px;" type="text"/></p> <p>c) -155 000 = <input style="width: 150px; height: 25px;" type="text"/></p> | <p>d) 1 = <input style="width: 150px; height: 25px;" type="text"/></p> <p>e) 97,3 % = <input style="width: 150px; height: 25px;" type="text"/></p> <p>f) 2 millions = <input style="width: 150px; height: 25px;" type="text"/></p> |
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Exercice 3 (10 points + 1 bonus) Inverser la formule de gauche pour trouver la grandeur de droite :

a)	$v = \frac{d}{t}$		$t =$
b)	$W = P \cdot t$		$P =$
c)	$E_{pot} = mgh$		$h =$
d)	$R = R_1 + R_2$		$R_2 =$
e)	$\bar{v} = \frac{v_f - v_i}{2}$		$v_i =$
f)	$x = \frac{1}{2}at^2 + v_0t + x_0$		$a =$
g)	$F = G \cdot \frac{M \cdot m}{d^2}$		$d =$
h)	$E = \frac{1}{2}mv^2 + mgh$		$m =$
i)	$R = \frac{R_1 \cdot R_2}{R_1 + R_2}$		$R_2 =$
j)	$P = \sigma T^4$		$T =$
k)	$x = \frac{1}{2}at^2 + v_0t + x_0$	BONUS ! 	$t =$