**Rearranging Equations**

1. Solve for the bolded variable in each of the following equations

|  |  |
| --- | --- |
| 1. K=p**H**
 | 1. $PV=nRT$
 |
| 1. v – u = **a**t
 | 1. $\frac{2}{3}πr^{3}=V$
 |
| 1. d = **v**t +1/2at2
 | 1. $\frac{m}{PT}=a$
 |
| 1. $A=\frac{h}{2}\left(a+b\right)$
 | 1. $d=(\frac{v\_{1}+v\_{2}}{2})∆t$
 |
| 1. $s=\frac{a}{1-r}$
 | 1. $a=\frac{v-u}{∆t}$
 |
| 1. $K=mt^{2}$
 | 1. $mp+kp=r$
 |
| 1. $A=4πr^{2}$
 | 1. $s=v\_{2}t-\frac{1}{2}at^{2}$
 |
| 1. $s=\frac{n}{2}(a+b)$
 | 1. $\frac{m}{h}=\frac{t}{p}$
 |
| 1. $PR=\frac{mT}{a}$
 | 1. $kP=m-L-r$
 |
| 1. $\frac{F\_{1}}{F\_{2}}=\frac{R^{2}}{r^{2}}$
 | 1. $\frac{m}{h}=\frac{t}{p}$
 |
| 1. $p-u=a$
 | 1. $\frac{1}{2}gt^{2}=m$
 |
| 1. $MV=at+r$
 | 1. $2ad=v^{2}-u^{2}$
 |
| 1. $h-p=t^{2}$
 | 1. $E=mc^{2}$
 |

Rearranging Equations -Answers

|  |  |
| --- | --- |
| 1. $H=\frac{K}{p}$
 | 1. $n=\frac{PV}{RT}$
 |
| 1. $a=\frac{v-u}{t}$
 | 1. $r=\sqrt[3]{\frac{3V}{2π}}$
 |
| 1. $v=\frac{d-\frac{1}{2at^{2}}}{t}$
 | 1. $T=\frac{m}{Pa}$
 |
| 1. $b=\frac{2A}{h}-a$
 | 1. $V\_{1}=\frac{2d}{∆t}-V\_{2}$
 |
| 1. $r=l-\frac{a}{s}$
 | 1. $∆t=\frac{v-u}{a}$
 |
| 1. $t=\sqrt{\frac{k}{m}}$
 | 1. $p=\frac{r}{m+k}$
 |
| 1. $π=\frac{A}{4r^{2}}$
 | 1. $a=\frac{2\left(V\_{2}t-s\right)}{∆t}$
 |
| 1. $b=\frac{2s}{n}-a$
 | 1. $h=\frac{mp}{t}$
 |
| 1. $T=\frac{PRa}{m}$
 | 1. $l=m-kP-r$
 |
| 1. $r=\sqrt{\frac{R^{2}F\_{2}}{F\_{1}}}$
 | 1. $t=\frac{mp}{h}$
 |
| 1. $u=p-a$
 | 1. $t=\sqrt{\frac{2m}{g}}$
 |
| 1. $a=\frac{MV-r}{t}$
 | 1. $v=\sqrt{2ad+u^{2}}$
 |
| 1. $t=\sqrt{h-p}$
 | 1. $c=\sqrt{\frac{E}{m}}$
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