Practice Problem #1

Practice Problem #2

|  |  |  |  |
| --- | --- | --- | --- |
| **Run #** | **Initial [A]  ([A]0)** | **Initial [B]  ([B]0)** | **Initial Rate  (v0)** |
| 1 | 1.00 M | 1.00 M | 1.25 x 10-2 M/s |
| 2 | 1.00 M | 2.00 M | 2.5 x 10-2 M/s |
| 3 | 2.00 M | 2.00 M | 2.5 x 10-2 M/s |

Practice Problem #3

|  |  |  |
| --- | --- | --- |
| **[NO(g)]  (mol dm-3)** | **[Cl2(g)]  (mol dm-3)** | **Initial Rate  (mol dm-3 s-1)** |
| 0.250 | 0.250 | 1.43 x 10-6 |
| 0.250 | 0.500 | 2.86 x 10-6 |
| 0.500 | 0.500 | 1.14 x 10-5 |

Practice Problem #4

|  |  |  |  |
| --- | --- | --- | --- |
| **Exp.** | **[S2O82-]** | **[I-]** | **Initial Rate (*M*/s)** |
| 1 | 0.08 | 0.034 | 2.2 x 10-4 |
| 2 | 0.08 | 0.017 | 1.1 x 10-4 |
| 3 | 0.16 | 0.017 | 2.2 x 10-4 |

What counts as showing my work?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trials being used** | **Which  [ ] is held constant** | **Which [ ] is being changed and by what factor is it changed by** | **What factor is the rate changed by** | **Order based on rate data** |
| 1 & 3 | [H2] | [O2] x 2 | x 2 | 1 |

*Does not have to be in chart format!   
Basically you need to tell me which trials to look at,   
and what they tell you*

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Practice Problem #1

Practice Problem #2

|  |  |  |  |
| --- | --- | --- | --- |
| **Run #** | **Initial [A]  ([A]0)** | **Initial [B]  ([B]0)** | **Initial Rate  (v0)** |
| 1 | 1.00 M | 1.00 M | 1.25 x 10-2 M/s |
| 2 | 1.00 M | 2.00 M | 2.5 x 10-2 M/s |
| 3 | 2.00 M | 2.00 M | 2.5 x 10-2 M/s |

Practice Problem #3

|  |  |  |
| --- | --- | --- |
| **[NO(g)]  (mol dm-3)** | **[Cl2(g)]  (mol dm-3)** | **Initial Rate  (mol dm-3 s-1)** |
| 0.250 | 0.250 | 1.43 x 10-6 |
| 0.250 | 0.500 | 2.86 x 10-6 |
| 0.500 | 0.500 | 1.14 x 10-5 |

Practice Problem #4

|  |  |  |  |
| --- | --- | --- | --- |
| **Exp.** | **[S2O82-]** | **[I-]** | **Initial Rate (*M*/s)** |
| 1 | 0.08 | 0.034 | 2.2 x 10-4 |
| 2 | 0.08 | 0.017 | 1.1 x 10-4 |
| 3 | 0.16 | 0.017 | 2.2 x 10-4 |

What counts as showing my work?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Trials being used** | **Which  [ ] is held constant** | **Which [ ] is being changed and by what factor is it changed by** | **What factor is the rate changed by** | **Order based on rate data** |
| 1 & 3 | [H2] | [O2] x 2 | x 2 | 1 |

*Does not have to be in chart format!   
Basically you need to tell me which trials to look at,   
and what they tell you*

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