You will be given four sets of cards. The colors correspond to the following types of representations:

White: Graph

Blue: Table

Yellow: Equation

Green: Situation

1. Sort the cards into sets of four so that all the cards in each set represent the same situation and contains one card of each color. Record your work below.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Graph | Equation | Table |
| Situation I |  |  |  |
| Situation II |  |  |  |
| Situation III |  |  |  |
| Situation IV |  |  |  |

1. Explain how you know which graph, equation and table go with Situation II.
2. Some ordered pairs representing the input and output (time, distance) are given below. Indicate which of the four situations could include each ordered pair. Note that the there may be more than one situation or none at all. If there are none, write “none”.

|  |  |
| --- | --- |
| Ordered Pair | Situations… |
| (4, 2) |  |
| (27, 13.5) |  |
| (12, 6.5) |  |
| (8, 0) |  |
| (20, 9) |  |
| (16, 8) |  |

1. Explain how you decided if an ordered pair matched a situation.
2. Give an ordered pair that would match the situation that is NOT given in the original table or in #3.

|  |  |
| --- | --- |
| **Situation** | **New Ordered Pair** |
| Situation 1 |  |
| Situation 2 |  |
| Situation 3 |  |
| Situation 4 |  |

1. Explain how you created the new ordered pairs in #5.