Science 10: Worksheet About Bags of Marbles

Imagine that you have a bunch of bags with ONLY red and green marbles inside. Now imagine that you are given some information about the marbles. Try to deduce the remaining information.

|  |  |  |  |
| --- | --- | --- | --- |
| **BAG** | **Red** | **Green** | **Total** |
| A | 4 | 12 |  |
| B | 8 | 5 |  |
| C | 7 |  | 20 |
| D |  | 4 | 4 |
| E |  | 25 | 51 |
| F | 16 |  | 33 |
| G | 19 |  | 29 |

Now imagine that you have a bunch of bags full of ONLY white marble marked with either the letter “p” or the letter “n”. Complete the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **BAG** | **p** | **n** | **Total** |
| A | 11 |  | 24 |
| B |  | 5 | 18 |
| C | 14 |  | 20 |
| D | 12 |  | 12 |
| E | 11 | 12 |  |
| F | 52 |  | 112 |
| G | 19 | 20 |  |

Now imagine that you have a bunch of bags full of ONLY white marble marked with either the letter “p” or the letter “n”. Also imagine that each marble has a mass of exactly 1 gram.

Complete the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **BAG** | **p** | **n** | **Mass (grams)** |
| A | 11 |  | 24 |
| B |  | 5 | 18 |
| C | 14 |  | 20 |
| D | 12 |  | 12 |
| E | 11 | 12 |  |
| F | 52 |  | 112 |
| G | 19 | 20 |  |
| H | 27 |  | 58 |
| I |  | 100 | 208 |
| J | 62 |  | 90 |
| K | 50 | 40 |  |
| L | 10 |  | 125 |
| M |  | 63 | 67 |