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| Problem | How many 150-foot laps must you swim in a 75-foot pool to swim a mile? | |
| Output | How many 150-foot laps to swim a mile. | |
| Input | 75-foot pool | |
| Process | Notation |  |
| Additional Information | Mile = 5,280 feet. |
| Diagram |  |
| Approach | Target distance / lap distance = number of laps |
| Solution | 5280 ft / 150 ft = x laps  35.2 = number of laps | |
| Check | 150 ft lap \* 35.2 = 5280 ft. | |

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| Problem | What is the total weight of the cookies excluding the box? | |
| Output | What is the net weight of the box when it is full? | |
| Input | A box contains 30 cookies.  ½ ounce per cookie | |
| Process | Notation |  |
| Additional Information | Net weight is the weight of the contents and excludes the weight of the container. |
| Diagram |  |
| Approach |  |
| Solution | ½ ounce per cookie \* 30 cookies = x | |
| Check | ½ ounce per cookie \* 30 cookies = 15 ounces of cookies | |

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| Problem | How many pages will be printed? | |
| Output | What is the final page number? | |
| Input | A computer-generated report includes inventory information for 200 items  50 lines per page and first page is numbered 1. | |
| Process | Notation |  |
| Additional Information | The pages are numbered, and the first page is numbered 1. |
| Diagram |  |
| Approach |  |
| Solution | 200 Items on the report / 50 lines per page = 4 pages in total. | |
| Check | 200/50 = 40 | |

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| Problem | If the empty box weighs 2 ounces and each cookie weighs ½ ounce, what is the total weight of the box full of cookies? | |
| Output | What is the total weight of the box of cookies? | |
| Input | A box contains 30 cookies  Cookies are ½ ounce and box is 2 ounces | |
| Process | Notation |  |
| Additional Information | Empty box weighs 2 ounces and each cookie weighs ½ ounce. |
| Diagram |  |
| Approach |  |
| Solution | ½ ounce \* 30 = 15 + 2 = x | |
| Check | Box weighs 2 ounces and ½ ounce per cookie \* 30 = 15 ounces. Therefore, 2 ounces + 15 ounces = 17 ounces. | |