1. **SOLVABLE -** Acme Builder’s Inc. has worked out that the wiring of an average house requires 45m of 14AWG wire. If a contractor has to wire 5 houses, what length of wire will be needed?

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| **IPO Chart** | | |
| **Input** | **Processing** | **Output** |
| * lengthPerHouse * numOfHouses | Assumptions:   1. All houses require the same type of wire. 2. The houses are the same average size   Processing Items:   * None   Algorithm:   1. Enter lengthPerHouse and numOfHouses 2. Calculate totalLength of the wire by multiplying lengthPerHouse by numOfHouses 3. Display totalLength | * totalLength |

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| **Sample Calculation / Desk-Checking Table** | | |
| lengthPerHouse [input] | numOfHouses [input] | totalLength [output] |
| 45m | 5 | 225m |