1.

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESSING | OUTPUT |
| The radius of the can  Height of the can | Multiplying radius\*radius\*height\*Pi | Volume of the tin can |

2.

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESSING | OUTPUT |
| Volume in quarts | Change quarts to litres  Quarts\*0.946352946 | Volume in litres |

3.

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESSING | OUTPUT |
| Distance in meters | Change to miles  Meters\*(0.00062137) | Distance in miles |

4.

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESSING | OUTPUT |
| -the total number of boxes  -the number of boxes he will place in each stack | Number of stacks he made  Total number of boxes divided the number of boxes in each stack and round to the next whole number | Number of stacks he will make |

5.

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESSING | OUTPUT |
| Number of students  Number of teams she wanted | Number of students in each team  Number of students divided by number of teams  Compute for reminder  Number of teams -reminder  Has number of students in each team  The other has number of students in each team plus one | Number of students in each team |

6.

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESSING | OUTPUT |
| Beginning odometer reading  Ending odometer reading  Number of gallons of gasoline | the mileage in miles per gallon (Beginning odometer reading -ending odometer reading)/number of gallons of gasoline | the mileage in miles per gallon |

7.

|  |  |  |
| --- | --- | --- |
| INPUT | PROCESSING | OUTPUT |
| Persons age | Compute maximum heart rate per minute  220- persons age  Compute the slowest and fastest rates necessary to strengthen his heart.  Fastest=maximum\*85%  Slowest= maximum\*65% | the slowest and fastest rates necessary to strengthen his heart. |