Solving Two-Step Equations

In this assignment you will explore a mystery country. As you make choices and solve nrob' as


FOOD OR FUN?
Solve each equation completely. Use the Decoder to uncover the clues (Choose a set of three problems.)

|  | THINGS TO EAT |  | THINGS TO DO |
| :---: | :---: | :---: | :---: |
| Appetizer) | The product of a number and 4 increased by 8 is -36 . | See) | The quotient of a number and 6 decreased by 10 is equal to 2 . |
|  | $4 \mathrm{n}+8=-36$ |  | $\mathrm{n} / 6-10=2$ |
|  | $\mathrm{n}=-11$ |  | $\mathrm{n}=72$ |
|  | Kofta |  | Taj Mahal |
| Entrée) | $\frac{1}{5} e-1=\frac{2}{3}$ | Try) | $\frac{1}{7}+x=\frac{2}{3} x$ |
|  |  |  | $x=-3 / 7$ |
|  | $\begin{aligned} & e=25 / 3 \\ & \text { Tandoori Chicken } \end{aligned}$ |  | Camel trekking |
| Dessert) | $4(\mathrm{~d}-7)=524$ | Visit) | $-3(v+25)=111$ |
|  | $\begin{aligned} & \mathrm{d}=138 \\ & \text { Sheer Khurma } \end{aligned}$ |  | $\begin{aligned} & \mathrm{V}=-62 \\ & \text { Goa Beach } \end{aligned}$ |


| A | B | C |
| :---: | :---: | :---: |
| 325 people were in a tour group. Six buses were completely filled and 7 people chose to walk. How many people did the bus hold? $\begin{gathered} 6 \mathrm{~b}+7=325 \\ \mathrm{~b}=53 \text { people fit on each bus } \\ \text { Rupee } \end{gathered}$ | Ciara brought $\$ 240$ to spend on gifts for her family. She found 8 identical statues at a gift shop. She had $\$ 72$ leftover. How much did each statue cost? $\begin{gathered} 8 x+72=240 \\ X=\$ 21 \text { left over } \end{gathered}$ <br> New Delhi | On Monday, Hakim stocked up on bottled water for the trip. On Tuesday, he purchased five more bottles to add to his collection. On Wednesday, half of his entire collection remained and he only had 7 left. How many did he have on Monday? $(x+5) / 2=7$ $X=9 \text { bottles of water }$ <br> Asia |

## DECODER

Find the answers from the prior problems to retrieve the clues. Not all items in the Decoder will be used.

| 21 | New Delhi | 0 | South America | 9 | Asia |
| :---: | :---: | :---: | :---: | :---: | :---: |
| -11 | Kofta | -1540 | Nowy Tomysl | 2 | Val d'Hérens |
| 458 | Lualualei | 830 | Burj Khalifa | 138 | Sheer Khurma |
| 5.5 | Africa | $8 / 9$ | Kabul | 143 | Reykjavik |
| $-3 / 7$ | Camel Trekking | 7.34 | Spelunking | -9.75 | Chicago Pizza |
| $25 / 3$ | Tandoori Chicken | -62 | Goa Beach | 53 | Rupee |
| -1 | Carriage in Savannah | 72 | Taj Mahal | $-1 / 3$ | Baku |


|  | THE COUNTRY PROFILE OF... <br> India |  |
| :---: | :---: | :---: |
| Capital City New Delhi | Population | 1275 millions |
| World Region Asia | GDP | 1842 billions |
| Currency Rupee | Area | 3,287,260 |
| Foods to eat <br> Sheer Khurma | Life Expectancy | 65.96 |
| Things to do Taj Mahal, Goa Beach \& Camel | Year of Independence | 1947 |

