Solving Two-Step Equations



Name _____

Date

In this assignment you will explore a mystery country. As you make choices and solve problems you will receive pieces of information about where in the world you are.

i cor ly se 4 out of

POPUL! (IN MILLIO)

$$P = 1.275$$

35p - 400 = 44225

B1. - 201.

$$G = 1.842$$

(IN SQUARE KILOMETERS)

$$\frac{a}{164363} - 10 = 10$$

$$a = 3,287,260$$

LIFE EXPECTANCY

(IN YEARS -- 2012)

$$L = 65.96$$

YEAR OF TNDEPENDENCE

$$-\frac{Y+13}{49}=-40$$

$$Y = 1947$$

FOOD OR FUN?

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

THINGS TO EAT

Appetizer) The product of a number and 4 See) increased by 8 is -36.

$$4n + 8 = -36$$

n = -11 Kofta

Entrée)
$$\frac{1}{5}e - 1 = \frac{2}{3}$$

$$e = 25/3$$

Tandoori Chicken

Dessert)
$$4(d-7) = 524$$

Sheer Khurma

THINGS TO DO

See) The quotient of a number and 6 decreased by 10 is equal to 2.

$$n/6 - 10 = 2$$

n = 72

<mark>Taj Mahal</mark>

Try)
$$\frac{1}{7} + x = \frac{2}{3}x$$

$$x = -3/7$$

Camel trekking

Visit)
$$-3(v + 25) = 111$$

V = -62

Goa Beach



FANTASTIC FINALE



(Choose 2 of the 3 application problems. Use the Decoder to uncover the clues)

A	В	С
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?	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	On Monday, Hakim stocked up on bottled water for the trip. On Tuesday, he purchased five more bottles to add to his collection.
6b + 7 = 325 $b = 53 people fit on each bus$	did each statue cost? $8x + 72 = 240$	On Wednesday, half of his entire collection remained and he only had 7 left. How many did he have on Monday?
Rupee	X = \$21 left over New Delhi	(x+5)/2 = 7 $X = 9 bottles of water$
		<mark>Asia</mark>

DECODER

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

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



India

Capital City	New Delhi	Population	1275 millions
World Region	Asia	GDP	1842 billions
Currency	Rupee	Area	3,287,260
Foods to eat	Kofta, Tandoori Chicken & <mark>Sheer Khurma</mark>	Life Expectancy	<mark>65.96</mark>
Things to do	Taj Mahal, Goa Beach & Camel Trekking	Year of Independence	1947