1	12	23	34	45	56	67	78	89
Bike	Sailboat	Kids	Toy	Bag of	Dress	Trip to	Antique	Ceramic
Helmet	Trip	Wagon	Trains	Dirt	Shirt	Hawaii	Doll	Bowl
2	13	24	35	46	57	68	79	90
Dress	Ceramic	Oil	Cookie	Scented	New	New	Antique	New
Socks	Bowl	Painting	Jar	Candle	Car	House	Doll	House
3	14	25	36	47	58	69	80	91
Scented	New	Candy	Bag of	Trip to	Toy	Day	Running	Million
Candle	House	Dish	Dirt	Hawaii	Trains	Spa	Shoes	Dollars
4	15	26	37	48	59	70	81	92
Antique	Dozen	Key	Bread	DVD	Sailboat	Cookie	Bag of	Dress
Doll	Roses	Chain	Maker	Player	Trip	Jar	Dirt	Shirt
5	16	27	38	49	60	71	82	93
Candy	Scuba	Bag of	Bike	Toy	Cookie	Antique	Million	New
Dish	Gear	Dirt	Helmet	Trains	Jar	Doll	Dollars	Car
6	17	28	39	50	61	72	83	94
Dress	Scented	Trip to	New	Cell	Day	Bag of	Candy	Day
Shirt	Candle	Hawaii	Car	Phone	Spa	Dirt	Dish	Spa
7	18	29	40	51	62	73	84	95
New	Bag of	Toy	New	Running	Sailboat	Toy	New	Scented
Car	Dirt	Trains	House	Shoes	Trip	Trains	House	Candle
8 Toy Trains	19 Glass Vase	30 Running Shoes	41 DVD Player	52 Antique Doll	63 Bag of Dirt	74 New Car	85 Sailboat	96 Bike Helmet
9	20	31	42	53	64	75	86	97
Bag of	Wind	Dress	Candy	Ceramic	Mouse	Bike	Trip to	Candy
Dirt	Chimes	Shirt	Dish	Bowl	Pad	Helmet	Hawaii	Dish
10	21	32	43	54	65	76	87	98
Million	Gift	New	Mouse	Bag of	Coffee	Running	Antique	Cookie
Dollars	Card	House	Pad	Dirt	Maker	Shoes	Doll	Jar
11	22	33	44	55	66	77	88	99
Day	DVD	Mouse	Sailboat	Million	Ceramic	Toy	Dress	Million
Spa	Player	Pad	Trip	Dollars	Bowl	Trains	Shirt	Dollars

Procedure:

Ask several student to get out a piece of paper and a pen or pencil. Show them the grid and note the numbers and prizes under the numbers. Read some of the **great prizes** a lucky student may win. Tell them that they will be asked to do a few math problems and get a final answer. That answer will be a number from 1 to 99. The prize they win will be the one listed under the number they get. Also state that their math must be correct to win so they need to write the work down so it can be checked. To help ensure that they work is correct you will be put with a couple of other students so they can each check on each others work.

Hand each of the different grids out to several different students. They will all get different gifts but they will all be bad.

Select any 2 digit number and write it down. Add the 2 dights of your number (the ones and tens digits) to get a second number and write that number down. Subtract the total of the digits from the original number they selected. Show the work and circle the final answer. That is the lucky number. Have them find their number on the Gift Chart they are holding. (Do not ask for the number, just the gift). Ask each group what the gift they won was.

How Does it work:

If you pick any 2 digit number there is a tens digit x and a ones digit y. The number is written $\underline{x} \neq \underline{y}$ but in base 10 notation the number is expressed as $10 \times x + y$

When you add up the ones and 10s digit you get x + y. IF you subtract that form the original number you get

10 x + y - (x + y)= 10 x + y - x - y= 9 x.

where x is the 10s digit in the number $\underline{x} \underline{y}$ AND x is any number from 1 to 9

The number you end up with is 9 times the tens digit.

Your number is 9×4 where x is a number form from 1 to 9.

your number is either 9, 18, 27, 36, 45, 54, 63, 72 or 81,

The gift chart could have ended at 81.

1	12	23	34	45	56	67	78	89
Bike	Sailboat	Kids	Toy	Nose	Dress	Trip to	Antique	Ceramic
Helmet	Trip	Wagon	Trains	Hair	Shirt	Hawaii	Doll	Bowl
2	13	24	35	46	57	68	79	90
Dress	Ceramic	Oil	Cookie	Scented	New	New	Antique	New
Socks	Bowl	Painting	Jar	Candle	Car	House	Doll	House
3	14	25	36	47	58	69	80	91
Scented	New	Candy	Nose	Trip to	Toy	Day	Running	Million
Candle	House	Dish	Hair	Hawaii	Trains	Spa	Shoes	Dollars
4	15	26	37	48	59	70	81	92
Antique	Dozen	Key	Bread	DVD	Sailboat	Cookie	Nose	Dress
Doll	Roses	Chain	Maker	Player	Trip	Jar	Hair	Shirt
5	16	27	38	49	60	71	82	93
Candy	Scuba	Nose	Bike	Toy	Cookie	Antique	Million	New
Dish	Gear	Hair	Helmet	Trains	Jar	Doll	Dollars	Car
6	17	28	39	50	61	72	83	94
Dress	Scented	Trip to	New	Cell	Day	Nose	Candy	Day
Shirt	Candle	Hawaii	Car	Phone	Spa	Hair	Dish	Spa
7	18	29	40	51	62	73	84	95
New	Nose	Toy	New	Running	Sailboat	Toy	New	Scented
Car	Hair	Trains	House	Shoes	Trip	Trains	House	Candle
8 Toy Trains	19 Flower Vase	30 Running Shoes	41 DVD Player	52 Antique Doll	63 Nose Hair	74 New Car	85 Sailboat	96 Bike Helmet
9	20	31	42	53	64	75	86	97
Nose	Wind	Dress	Candy	Ceramic	Mouse	Bike	Trip to	Candy
Hair	Chimes	Shirt	Dish	Bowl	Pad	Helmet	Hawaii	Dish
10	21	32	43	54	65	76	87	98
Million	Gift	New	Mouse	Nose	Coffee	Running	Antique	Cookie
Dollars	Card	House	Pad	Hair	Maker	Shoes	Doll	Jar
11	22	33	44	55	66	77	88	99
Day	DVD	Mouse	Sailboat	Million	Ceramic	Toy	Dress	Million
Spa	Player	Pad	Trip	Dollars	Bowl	Trains	Shirt	Dollars

1	12	23	34	45	56	67	78	89
Bike	Sailboat	Kids	Toy	Ear	Dress	Trip to	Antique	Ceramic
Helmet	Trip	Wagon	Trains	Wax	Shirt	Hawaii	Doll	Bowl
2	13	24	35	46	57	68	79	90
Dress	Ceramic	Oil	Cookie	Scented	New	New	Antique	New
Socks	Bowl	Painting	Jar	Candle	Car	House	Doll	House
3	14	25	36	47	58	69	80	91
Scented	New	Candy	Ear	Trip to	Toy	Day	Running	Million
Candle	House	Dish	Wax	Hawaii	Trains	Spa	Shoes	Dollars
4	15	26	37	48	59	70	81	92
Antique	Dozen	Key	Bread	DVD	Sailboat	Cookie	Ear	Dress
Doll	Roses	Chain	Maker	Player	Trip	Jar	Wax	Shirt
5	16	27	38	49	60	71	82	93
Candy	Scuba	Ear	Bike	Toy	Cookie	Antique	Million	New
Dish	Gear	Wax	Helmet	Trains	Jar	Doll	Dollars	Car
6	17	28	39	50	61	72	83	94
Dress	Scented	Trip to	New	Cell	Day	Ear	Candy	Day
Shirt	Candle	Hawaii	Car	Phone	Spa	Wax	Dish	Spa
7	18	29	40	51	62	73	84	95
New	Ear	Toy	New	Running	Sailboat	Toy	New	Scented
Car	Wax	Trains	House	Shoes	Trip	Trains	House	Candle
8 Toy Trains	19 Flower Vase	30 Running Shoes	41 DVD Player	52 Antique Doll	63 Ear Wax	74 New Car	85 Sailboat	96 Bike Helmet
9	20	31	42	53	64	75	86	97
Ear	Wind	Dress	Candy	Ceramic	Mouse	Bike	Trip to	Candy
Wax	Chimes	Shirt	Dish	Bowl	Pad	Helmet	Hawaii	Dish
10	21	32	43	54	65	76	87	98
Million	Gift	New	Mouse	Ear	Coffee	Running	Antique	Cookie
Dollars	Card	House	Pad	Wax	Maker	Shoes	Doll	Jar
11	22	33	44	55	66	77	88	99
Day	DVD	Mouse	Sailboat	Million	Ceramic	Toy	Dress	Million
Spa	Player	Pad	Trip	Dollars	Bowl	Trains	Shirt	Dollars

1 Bike Helmet	12 Sailboat Trip	23 Wagon	34 Toy Trains	45 Dead Fish	56 Dress Shirt	67 Trip to Hawaii	78 Antique Doll	89 Ceramic Bowl
2	13	24	35	46	57	68	79	90
Dress	Ceramic	Oil	Cookie	Scented	New	New	Antique	New
Socks	Bowl	Painting	Jar	Candle	Car	House	Doll	House
3	14	25	36	47	58	69	80	91
Scented	New	Candy	Dead	Trip to	Toy	Day	Running	Million
Candle	House	Dish	Fish	Hawaii	Trains	Spa	Shoes	Dollars
4	15	26	37	48	59	70	81	92
Antique	Dozen	Key	Bread	DVD	Sailboat	Cookie	Dead	Dress
Doll	Roses	Chain	Maker	Player	Trip	Jar	Fish	Shirt
5	16	27	38	49	60	71	82	93
Candy	Scuba	Dead	Bike	Toy	Cookie	Antique	Million	New
Dish	Gear	Fish	Helmet	Trains	Jar	Doll	Dollars	Car
6	17	28	39	50	61	72	83	94
Dress	Scented	Trip to	New	Cell	Day	Dead	Candy	Day
Shirt	Candle	Hawaii	Car	Phone	Spa	Fish	Dish	Spa
7 New Car	18 Dead Fish	29 Toy Trains	40 New House	51 Running Shoes	62 Sailboat	73 Toy Trains	84 New House	95 Scented Candle
8 Toy Trains	19 Flower Vase	30 Running Shoes	41 DVD Player	52 Antique Doll	63 Dead Fish	74 New Car	85 Sailboat	96 Bike Helmet
9	20	31	42	53	64	75	86	97
Dead	Wind	Dress	Candy	Ceramic	Mouse	Bike	Trip to	Candy
Fish	Chimes	Shirt	Dish	Bowl	Pad	Helmet	Hawaii	Dish
10	21	32	43	54	65	76	87	98
Million	Gift	New	Mouse	Dead	Coffee	Running	Antique	Cookie
Dollars	Card	House	Pad	Fish	Maker	Shoes	Doll	Jar
11 Day Spa	22 DVD Player	33 Mouse Pad	44 Sailboat	55 Million Dollars	66 Ceramic Bowl	77 Toy Trains	88 Dress Shirt	99 Million Dollars

1 Bike Helmet	12 Sailboat Trip	23 Wagon	34 Toy Trains	45 Barf Bag	56 Dress Shirt	67 Trip to Hawaii	78 Antique Doll	89 Ceramic Bowl
2	13	24	35	46	57	68	79	90
Dress	Ceramic	Oil	Cookie	Scented	New	New	Antique	New
Socks	Bowl	Painting	Jar	Candle	Car	House	Doll	House
3	14	25	36	47	58	69	80	91
Scented	New	Candy	Barf	Trip to	Toy	Day	Running	Million
Candle	House	Dish	Bag	Hawaii	Trains	Spa	Shoes	Dollars
4 Antique Doll	15 Flowers	26 Key Chain	37 Bread Maker	48 DVD Player	59 Sailboat Trip	70 Cookie Jar	81 Barf Bag	92 Dress Shirt
5	16	27	38	49	60	71	82	93
Candy	Scuba	Barf	Bike	Toy	Cookie	Antique	Million	New
Dish	Gear	Bag	Helmet	Trains	Jar	Doll	Dollars	Car
6	17	28	39	50	61	72	83	94
Dress	Scented	Trip to	New	Cell	Day	Barf	Candy	Day
Shirt	Candle	Hawaii	Car	Phone	Spa	Bag	Dish	Spa
7 New Car	18 Barf Bag	29 Toy Trains	40 New House	51 Running Shoes	62 Sailboat	73 Toy Trains	84 New House	95 Scented Candle
8 Toy Trains	19 Vase	30 Running Shoes	41 DVD Player	52 Antique Doll	63 Barf Bag	74 New Car	85 Sailboat	96 Bike Helmet
9	20	31	42	53	64	75	86	97
Barf	Wind	Dress	Candy	Ceramic	Mouse	Bike	Trip to	Candy
Bag	Chimes	Shirt	Dish	Bowl	Pad	Helmet	Hawaii	Dish
10	21	32	43	54	65	76	87	98
Million	Gift	New	Mouse	Barf	Coffee	Running	Antique	Cookie
Dollars	Card	House	Pad	Bag	Maker	Shoes	Doll	Jar
11 Day Spa	22 DVD Player	33 Mouse Pad	44 Sailboat	55 Million Dollars	66 Ceramic Bowl	77 Toy Trains	88 Dress Shirt	99 Million Dollars