Who Was George Crum?

Division

Instructions:

Solve each problem. Then use your answers to solve the riddle on the next page. Simply write the letter from each box over the corresponding answer to discover George Crum's invention!

Helpful Hint:

To divide large numbers, just repeat 3 simple steps until you get the answer:

1. Divide

$$2\overline{)2795}\quad 1$$

What number should be multiplied by 2 to get a product of 2—or as close to 2 as possible without going over?
2 times 1 is 2. Write 1 in the thousands place of the quotient.

2. Multiply & Subtract

$$\begin{array}{r} 1 \\ 2\overline{)2795} \\ -\,2 \\ \hline 0 \end{array}$$

Multiply 1 x 2. Write the product, 2, in the thousands column, and subtract. The difference is 0.

3. Drop Down the Next Digit

$$\begin{array}{r} 1 \\ 2\overline{)2795} \\ -\,2\downarrow \\ \hline 07 \end{array}$$

Drop down the 7 in the hundreds column next to the 0.

4. Divide

$$\begin{array}{r} 13 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \end{array}$$

What number should be multiplied by 2 to get a product of 7—or as close to 7 as possible without going over?
2 times 3 is 6. Write 3 in the hundreds place of the quotient.

5. Multiply & Subtract

$$\begin{array}{r} 13 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \\ -\,6 \\ \hline 1 \end{array}$$

Multiply 3 x 2. Write the product, 6, in the hundreds column, and subtract. The difference is 1.

6. Drop Down the Next Digit

$$\begin{array}{r} 13 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \\ -\,6\downarrow \\ \hline 19 \end{array}$$

Drop down the 9 in the tens column next to the 1.

7. Divide

$$\begin{array}{r} 139 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \\ -\,6 \\ \hline 19 \end{array}$$

What number should be multiplied by 2 to get a product of 19—or as close to 19 as possible without going over?
2 times 9 is 18. Write 9 in the tens place of the quotient.

8. Multiply & Subtract

$$\begin{array}{r} 139 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \\ -\,6 \\ \hline 19 \\ -\,18 \\ \hline 1 \end{array}$$

Multiply 9 x 2. Write the product, 18, below the 19, and subtract. The difference is 1.

9. Drop Down the Next Digit

$$\begin{array}{r} 139 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \\ -\,6 \\ \hline 19 \\ -\,18\downarrow \\ \hline 15 \end{array}$$

Drop down the 5 in the ones column next to the 1.

10. Divide

$$\begin{array}{r} 1397 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \\ -\,6 \\ \hline 19 \\ -\,18 \\ \hline 15 \end{array}$$

What number should be multiplied by 2 to get a product of 15—or as close to 15 as possible without going over? 2 times 7 is 14. Write 7 in the ones place of the quotient.

11. Multiply & Subtract

$$\begin{array}{r} 1397 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \\ -\,6 \\ \hline 19 \\ -\,18 \\ \hline 15 \\ -\,14 \\ \hline 1 \end{array}$$

Multiply 7 x 2. Write the product, 14, below the 15, and subtract. The difference is 1.

12. Drop Down the Next Digit

$$\begin{array}{r} 1397\ \text{R}\ 1 \\ 2\overline{)2795} \\ -\,2 \\ \hline 07 \\ -\,6 \\ \hline 19 \\ -\,18 \\ \hline 15 \\ -\,14 \\ \hline 1 \end{array}$$

With no more digits to drop down, you have the final quotient: 1,397 with a remainder of 1.

Who Was George Crum?

A $3\overline{)528}$	**C** $4\overline{)616}$	**H** $4\overline{)6,748}$
I $7\overline{)3,192}$	**O** $2\overline{)24,564}$	**O** $6\overline{)1,494}$
P $3\overline{)36,765}$	**S** $5\overline{)5,295}$	**T** $5\overline{)18,655}$

Use your answers to complete the riddle on the next page!

Who Was George Crum?

My name is George Crum. In 1853, I was working as a chef at the Moon Lake Lodge in Saratoga Springs, New York. A customer kept sending his fried potatoes back to the kitchen because they were too thick. Hoping to annoy the customer, I decided to slice the potatoes so thin that they couldn't be eaten with a fork. Instead, the customer was happy! The chips became a regular menu item. We called them Saratoga Chips.

Today you know this invention as:

12,255	12,282	3,731	176	3,731	249
154	1,687	456	12,255	1,059	

Answer Key

A

$$3\overline{)528} = 176$$

-3

22

-21

18

-18

0

C

$$4\overline{)616} = 154$$

-4

21

-20

16

-16

0

H

$$4\overline{)6,748} = 1,687$$

-4

27

-24

34

-32

28

-28

0

I

$$7\overline{)3,192} = 456$$

-28

39

-35

42

-42

0

O

$$2\overline{)24,564} = 12,282$$

-2

04

-4

05

-4

16

-16

04

-4

0

O

$$6\overline{)1,494} = 249$$

-12

29

-24

54

-54

0

P

$$3\overline{)36,765} = 12,255$$

-3

06

-6

07

-6

16

-15

15

-15

0

S

$$5\overline{)5,295} = 1,059$$

-5

02

-0

29

-25

45

-45

0

T

$$5\overline{)18,655} = 3,731$$

-15

36

-35

15

-15

05

-5

0

Riddle Answer: Potato Chips