## Clue 1 Answers

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | 3 | 4 | 6 | 1 | 7 | 5 | 9 | 0 | 2 |

Round this number to the nearest 100 000:


4

0

Find the digit sum of this answer.
2876403 rounded to the nearest $100000=2900000=2+9=11=1+1=2$

This is the first digit of the number you need to reboot the candy cane machine.

## Clue 2 Answers

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | 3 | 4 | 6 | 1 | 7 | 5 | 9 | 0 | 2 |

Are these fractions calculations true or false?


If there are more true statements, then the second digit you need to reboot the candy cane machine: 5

If there are more false statements, then the second digit you need to reboot the candy cane machine: 9

## Clue 3 Answers

Use the code breaker to reveal a mixed-up Christmas word.

| A | B | C | D | E | F | G | H | I | J | K | L | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 180 | 210 | 240 | 270 | 280 | 330 | 360 | 420 | 440 | 480 | 490 | 540 | 560 |


| $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{P}$ | $\mathbf{Q}$ | $\mathbf{R}$ | $\mathbf{S}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{V}$ | $\mathbf{W}$ | $\mathbf{X}$ | $\mathbf{Y}$ | $\mathbf{Z}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 630 | 660 | 720 | 770 | 810 | 840 | 880 | 960 | 990 | 1080 | 1210 | 1320 | 1440 |


| Calculation | Answer | Letter |
| :---: | :---: | :---: |
| $11 \times 80$ | 880 | $\mathbf{t}$ |
| $6 \times 110$ | 660 | $\mathbf{o}$ |
| $90 \times 4$ | 360 | $\mathbf{g}$ |
| $7 \times 70$ | 490 | $\mathbf{k}$ |


| Calculation | Answer | Letter |
| :---: | :---: | :---: |
| $\square \div 3=80$ | 240 | $\mathbf{c}$ |
| $\div \div 11=40$ | 440 | $\mathbf{i}$ |
| $\square \div 90=7$ | 630 | $\mathbf{n}$ |
| $120 \times 7$ | 840 | $\mathbf{s}$ |

Turn over the matching object card to reveal the third digit you need to reboot the candy cane machine.
stocking = 8

## Clue 4 Answers

Solve this number riddle by using inverse operations:


Find the digit sum of this answer.
$59=5+9=14=1+4=5$

This is the fourth digit of the number you need to reboot the candy cane machine.

## Clue 5 Answers

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | 3 | 4 | 6 | 1 | 7 | 5 | 9 | 0 | 2 |

Calculate the answer to this addition calculation:


Find the digit sum of this answer.
$8+4+8+8+6+5=39=3+9=12=1+2=3$

This is the fifth digit of the number you need to reboot the candy cane machine.

## Clue 6 Answers

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | 3 | 4 | 6 | 1 | 7 | 5 | 9 | 0 | 2 |

Calculate the answer to this subtraction calculation:


Find the digit sum of this answer.
$9+7+4+5+4+4+8=41=4+1=5$

This is the sixth digit of the number you need to reboot the candy cane machine.

## Clue 7 Answers

How many reindeer are there? Find $\frac{4}{7}$ of this number.


This is the seventh digit you need to reboot the candy cane machine.

$$
\frac{4}{7} \text { of } 14=8
$$

## Clue 8 Answers

In just one hour, the Candy Cane Machine in Santa's Workshop makes between 210 to 240 candy canes.
Counted in sevens there are three left over. Counted in fours there are two left over.
How many candy canes were made?
Find the digit sum of this answer.
234 candy canes $=2+3+4=9$


This is the eighth digit of the number you need to reboot the candy cane machine.

## Clue 9 Answers

What is the coordinate position of the


What is the coordinate position of the閶?

Add together the first number
( $x$-axis position) in each coordinate answer.
Christmas Pudding $=(-3,3)$
Stocking $=(5,3)$


This is the ninth digit of the number you need to reboot the candy cane machine.
2

## Clue 10 Answers

What fraction of the toys made by the elves are bicycles?

The elves made 250 toys altogether. They made 50 bicycles.
$\frac{50}{250}=\frac{1}{5}=5$


The denominator of the answer will give you the tenth digit you need to reboot the candy cane machine.

