Clue 1 Answers

6	12	18	24	30	**36**	42	48

9	18	27	36	45	**54**	63	72

21	28	**35**	42	49	56	63	70

99	88	77	**66**	55	44	33	22

48	42	36	30	24	**18**	12	6

81	72	63	54	45	36	**27**	18

63	**56**	49	42	35	28	21	14

132	121	110	99	88	77	66	**55**

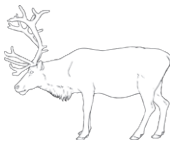
Put the **hidden numbers in order from smallest to largest**. Which is the largest?

Find the digit-sum of this number. This is the ***first*** digit you need to unlock the reindeer stable.

18, 27, 35, 36, 54, 55, 56, 66 **66 = 6 + 6 = 12 = 1 + 2 = 3**

3

Clue 2 Answers

									
8	3	4	6	1	7	5	9	0	2

Are these comparison statements **true** or ***false***?

5	**9**	**0**	**6**	>	**5**	**9**	**1**	**0** **False**
1	**0**	**4**	**3**	<	**1**	**4**	**3**	**0** **True**
4	**2**	**8**	**9**	>	**4**	**2**	**7**	**9** **True**

If there are more true statements, then the **second** digit you need to unlock the reindeer stable is: **1**

If there are more false statements, then the **second** digit you need to unlock the reindeer stable is:

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
3	5	7	9	12	15	54	42	36	40	45	49	50

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
56	63	66	72	77	84	88	90	99	108	121	132	144

Calculation	Answer	Letter
42 ÷ ☐ = 6	**7**	**c**
☐ × 9 = 108	**12**	**e**
24 ÷ ☐ = 8	**3**	**a**
☐ × 11 = 77	**7**	**c**

Calculation	Answer	Letter
☐ ÷ 9 = 5	**45**	**k**
11 × 7	**77**	**r**
☐ ÷ 11 = 7	**77**	**r**
12 × 7	**84**	**s**

Turn over the matching object card to reveal the **third** digit you need to unlock the reindeer stable.

Crackers = **7**

Clue 4 Answers

Solve this number riddle by using inverse operations:


Patch the Elf is busy making yo-yos in Santa's Workshop.

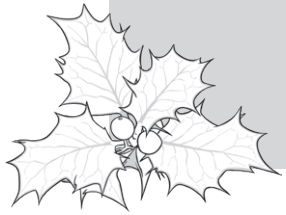
I multiply the number of yo-yos Patch makes by 4.

I then subtract 300,

and divide by 3.

I end with the number 36.

How many yo-yos did Patch the Elf make? **102 yo-yos**



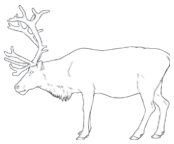
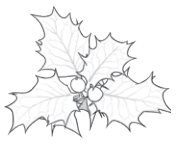

Find the digit sum of this answer.

This is the **fourth** digit of the number you need to unlock the reindeer stable.

102 = 1 + 0 + 2 = 3

3

Clue 5 Answers

									
8	3	4	6	1	7	5	9	0	2

Calculate the answer to this addition calculation:

$$\begin{array}{rcccc} & 1 & 3 & 7 & 6 \\ + & 4 & 9 & 9 & 8 \\ \hline & 6 & 3 & 7 & 4 \end{array}$$

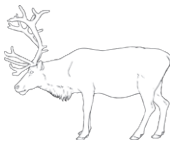
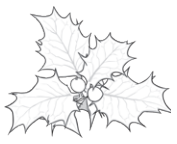
Find the digit sum of this answer.

This is the **fifth** digit of the number you need to unlock the reindeer stable.

1376 + 4998 = 6374 = 6 + 3 + 7 + 4 = 20 = 2 + 0 = 2

2

Clue 6 Answers

									
8	3	4	6	1	7	5	9	0	2

Calculate the answer to this subtraction calculation:

$$\begin{array}{rcccc} & 5 & 3 & 0 & 2 \\ - & 1 & 9 & 4 & 8 \\ \hline & 3 & 3 & 5 & 4 \end{array}$$

Find the digit sum of this answer.

This is the **sixth** digit of the number you need to unlock the reindeer stable.

5302 – 1948 = 3354 = 3 + 3 + 5 + 4 = 15 = 1 + 5 = 6

6

Clue 7 Answers

How many reindeer are there? Find 3/5 of this number.

This is the **seventh** digit you need to unlock the reindeer stable.

3/5 of 15 = 9

9

Clue 8 Answers

In just one hour, the Candy Cane Machine in Santa's Workshop makes between 150 to 170 candy canes.

Counted in threes, there are two left over. Counted in fives, there are three left over.

How many candy canes were made?

Find the digit sum of this answer.

This is the **eighth** digit of the number you need to unlock the reindeer stable.

158 candy canes = 1 + 5 + 8 = 14 = 1 + 4 = 5

5

Clue 9 Answers

What is the coordinate position of the ?

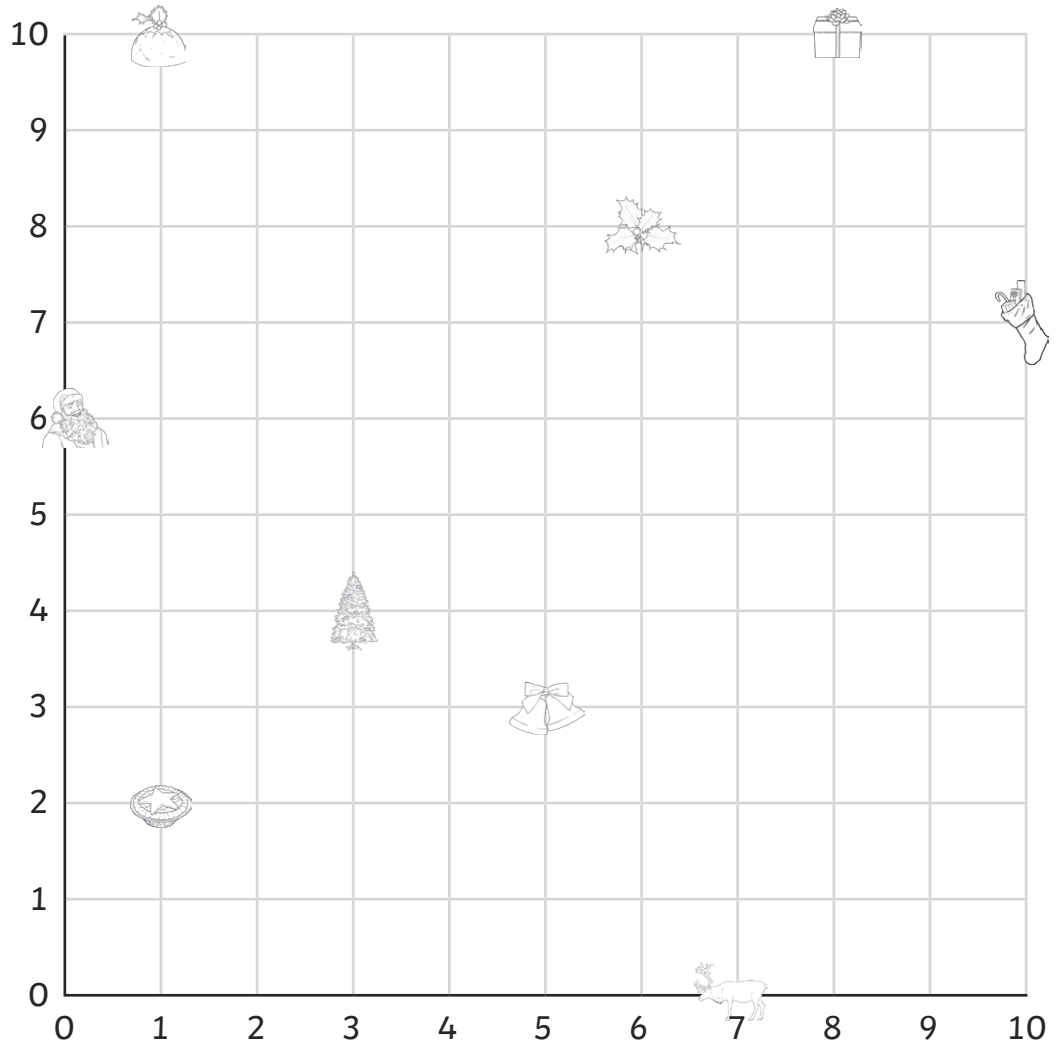
What is the coordinate position of the ?

Add together the first number (x-axis position) in each coordinate answer.

Find the digit sum of this answer.

holly = (6, 8)

reindeer = (7, 0)

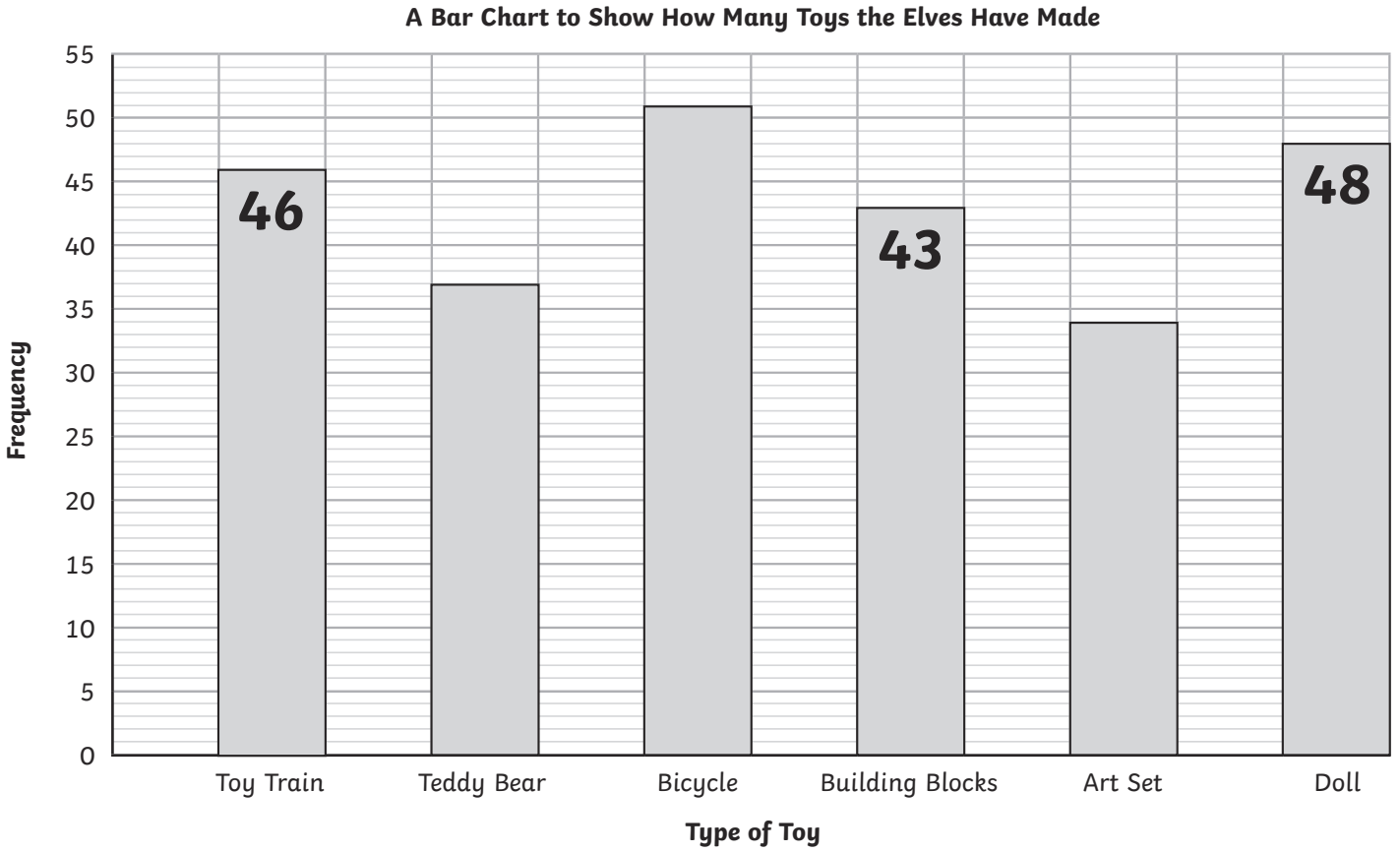


This is the **ninth** digit of the number you need to unlock the reindeer stable.

6 + 7 = 13 = 1 + 3 = 4

4

Clue 10 Answers



How many toy trains, building blocks and dolls did the elves make altogether?

Find the digit sum of this answer.

This is the **tenth** digit you need to unlock the reindeer stable.

46 + 43 + 48 = 137 **1 + 3 + 7 = 11** **1 + 1 = 2**

2