




Clue 1


6	12	18	24	30		42	48
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9	18	27	36	45		63	72
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21	28		42	49	56	63	70
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99	88	77		55	44	33	22
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48	42	36	30	24		12	6
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81	72	63	54	45	36		18
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63		49	42	35	28	21	14
----	---	----	----	----	----	----	----

132	121	110	99	88	77	66	
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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.

Clue 2

									
8	3	4	6	1	7	5	9	0	2

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

				>				
				<				
				>				

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:

8

Clue 3

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

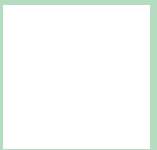
A	B	C	D	E	F	G	H	I	J	K	L	M
3	5	7	9	12	15	54	42	36	40	45	49	50

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
$42 \div \square = 6$		
$\square \times 9 = 108$		
$24 \div \square = 8$		
$\square \times 11 = 77$		

Calculation	Answer	Letter
$\square \div 9 = 5$		
11×7		
$\square \div 11 = 7$		
12×7		

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



Clue 4

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?



Find the digit sum of this answer.

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

Clue 5

									
8	3	4	6	1	7	5	9	0	2

Calculate the answer to this addition calculation:

$$\begin{array}{cccc} \begin{array}{c} \text{Gift} \\ \text{Stocking} \end{array} & & & \\ + & \begin{array}{c} \text{Star pie} \\ \text{Holly} \\ \text{Snowman} \\ \text{Santa} \end{array} & & \\ \hline & & & \\ \hline \end{array}$$

Find the digit sum of this answer.

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

Clue 6

									
8	3	4	6	1	7	5	9	0	2

Calculate the answer to this subtraction calculation:

$$\begin{array}{cccc} \text{Reindeer} & \text{Stocking} & \text{Bells} & \text{Pudding} \\ - & \text{Gift} & \text{Holly} & \text{Pie} \\ \hline & & & \text{Tree} \\ \hline \end{array}$$

Find the digit sum of this answer.

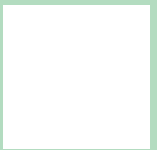
This is the **sixth** digit of the number you need to unlock the reindeer stable.

Clue 7

How many reindeer are there? Find $\frac{3}{5}$ of this number.



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



Clue 8

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.

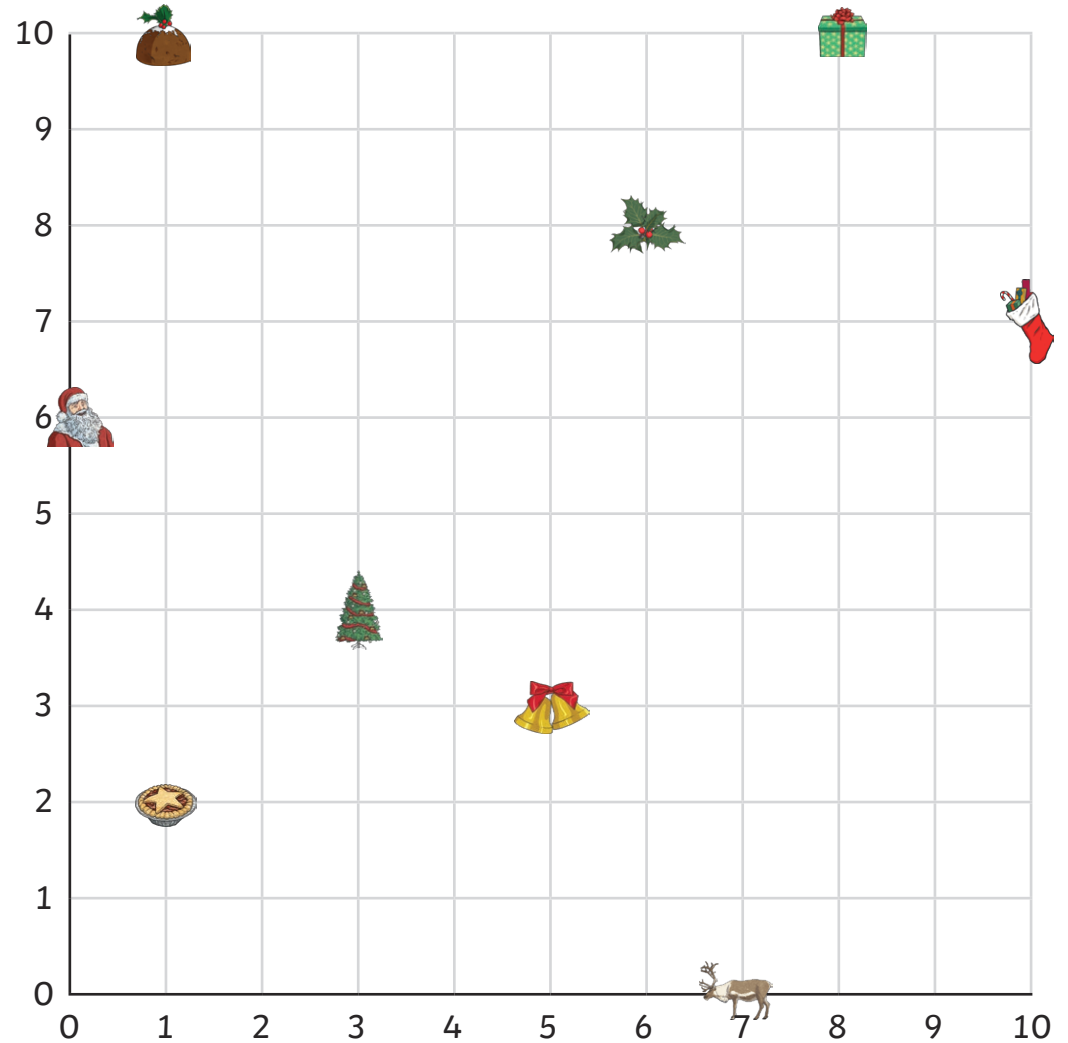
Clue 9

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.

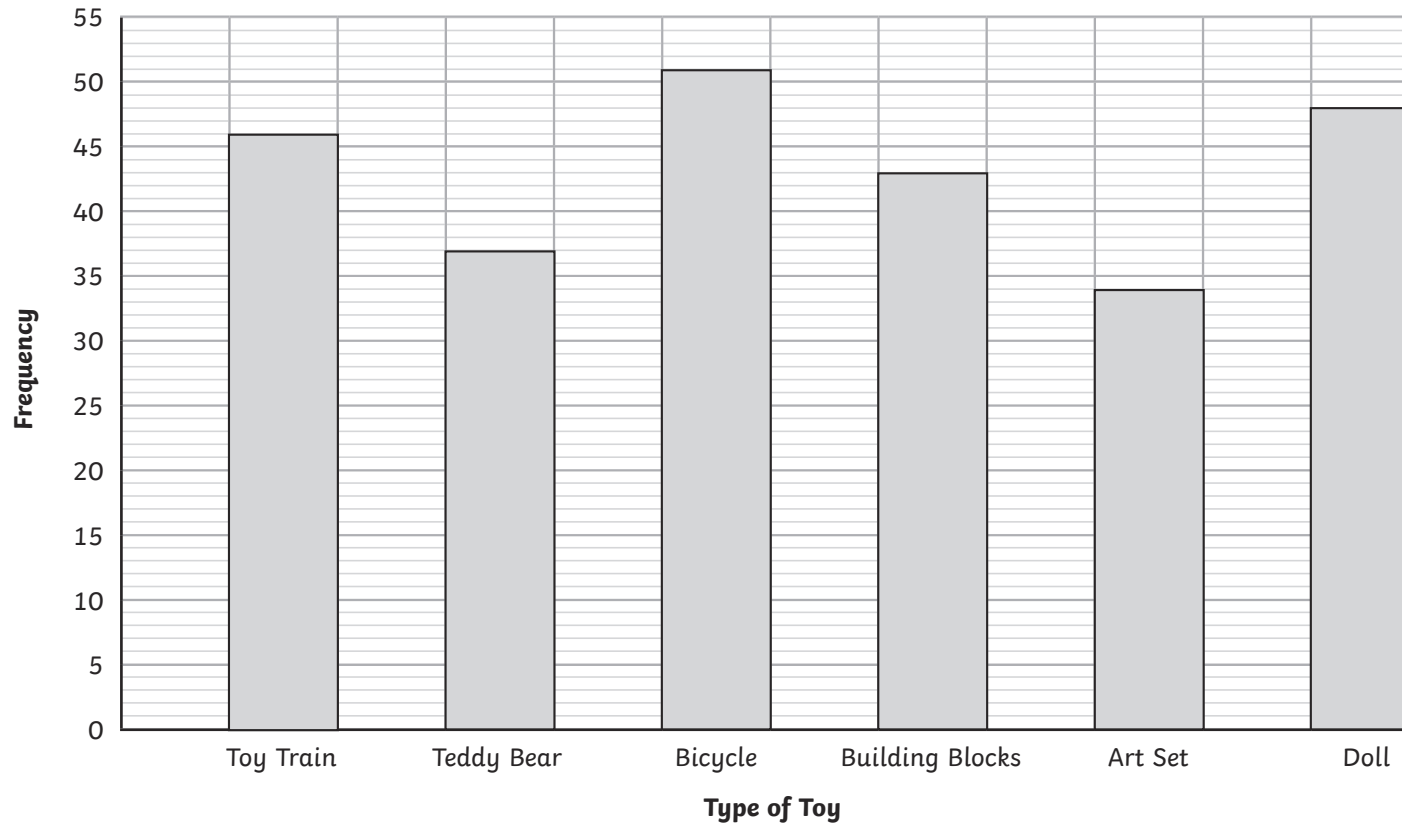
Find the digit sum of this answer.



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

Clue 10

A Bar Chart to Show How Many Toys the Elves Have Made



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.

