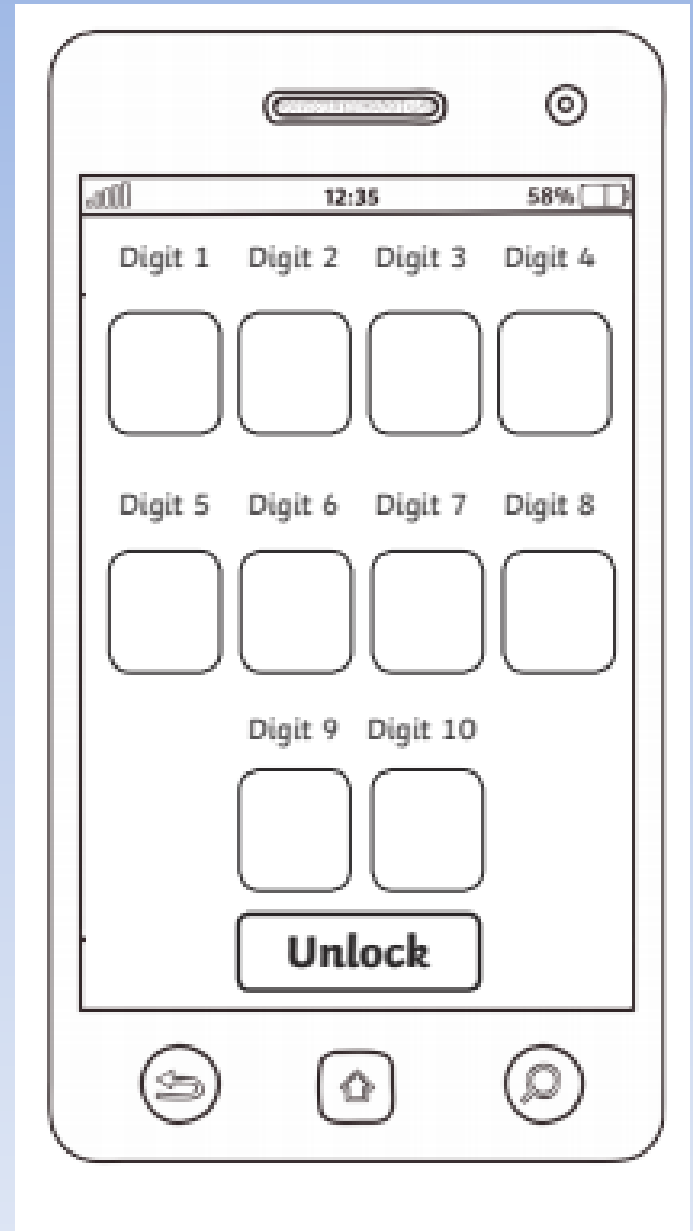You need to draw yourself a simple keypad To record your answers throughout your attempts to escape!

Read all the instructions carefully!

Lost in the Autumn Forest

You are having a wonderful time playing with your friends and family in the forest. You have been jumping in the piles of crisp, golden leaves and collecting shiny, brown conkers.

It's getting close to tea time and you all decide to head home. However, as you look around, you realise that you are lost!

Luckily, an adult in your group has a map of the forest on an app on their phone, but they have forgotten the passcode needed to unlock the phone.

Solve the clues and puzzles to discover the passcode needed to unlock the phone and find your way out of the forest.

The clues could be anywhere, so you need to keep your eyes peeled and your mind sharp!

Lost in the Autumn Forest

The Rules

- When you find a clue that has been hidden, solve the problems to find the answer and reveal one of the digits to the passcode.

- Record your answer on the answer sheet.

- Once you have discovered the passcode for the phone, check it to see if it opens the lock.

Clue 1

🌰	🍁	🎆	🎃	🦔	🧤	🔥	🌰	🐿️	🚜
2	4	8	6	1	0	5	9	3	7

Round this number to the nearest 1000.

3

Add the digits together and then find the digit sum of this answer.

This is the **first** digit of the number needed to unlock the phone and escape the forest.

Clue 2

2	4	8	6	1	0	5	9	3	7

Are these comparison statements true or false?

If there are more **true** statements, then the **second** digit needed to escape the forest is:

1

If there are more **false** statements, then the **second** digit needed to escape the forest is:

8

Clue 3

A	B	C	D	E	F	G	H	I	J	K	L	M
18	21	24	27	28	33	36	42	44	48	49	54	56

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
63	66	72	77	81	84	88	96	99	108	121	132	144

Calculation	Answer	Letter
8 × 9		
7 × 8		
7^2		
☐ ÷ 7 = 9		

Calculation	Answer	Letter
☐ ÷ 9 = 8		
4 × 11		
☐ ÷ 8 = 12		
12 × 7		

Use the code breaker to reveal a mixed-up autumn word. Find the matching object card to reveal the **third** digit needed to unlock the phone and escape the forest.

Clue 4

Solve the number puzzle by using inverse operations.

I collect some conkers in the forest.

I divide the number of conkers by 4.

I then subtract 84,

and divide by 9.

I end with the number 7.

How many conkers did I collect?
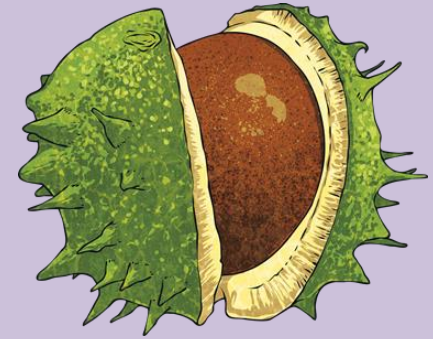
Add together the digits and find the digit sum of this answer.

This is the **fourth** digit of the number needed to unlock the phone and escape the forest.

Clue 5

2	4	8	6	1	0	5	9	3	7

Calculate the answer to this addition calculation:

Which digit occurs most frequently in the answer?

		🎃	🎆	🌰	🧤	🔥	🚜
+		🐿️	🍂	🎆	🚜	🌰	

This answer is the **fifth** digit of the number needed to unlock the phone and escape the forest.

Clue 6

2	4	8	6	1	0	5	9	3	7

Calculate the answer to this subtraction calculation:

		tractor	gloves	pumpkin	gloves	conker	hedgehog
−		hedgehog	leaf	fireworks	tractor	pumpkin	

The digit in the hundred thousand place in the answer is the **sixth** digit of the number needed to unlock the phone and escape the forest.

Clue 7

How many boxes fireworks are there? Find $\frac{5}{6}$ of this number.

Find the digit sum of this answer.

This is the **seventh** digit you need to escape the forest.

Clue 8

During a blustery, autumn walk in the forest, Oscar collected between 150 and 200 acorns.

When counted in sevens, there are three left over. When counted in nines, there are two left over.

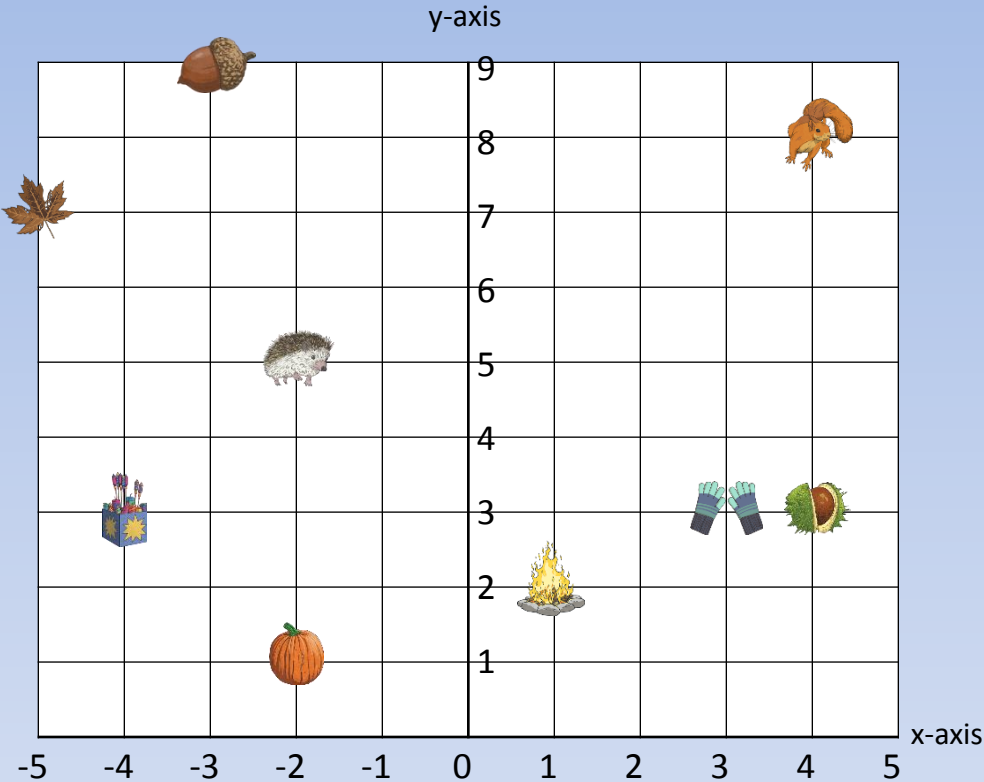How many acorns did Oscar collect?

Find the difference between the tens digit and ones digit.

This is the **eighth** digit of the number needed to unlock the phone and escape the forest.

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.
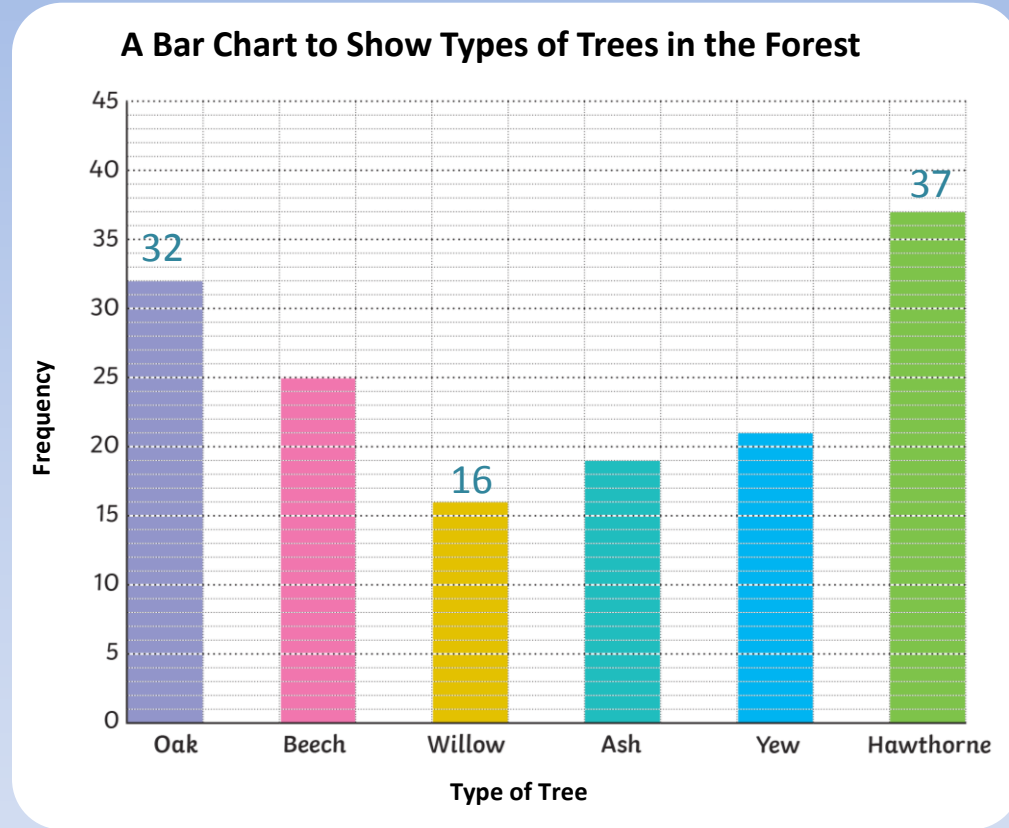
This is the **ninth** digit of the number needed to unlock the phone and escape the forest.

Clue 10

How many oak, willow and hawthorn trees are there in the forest altogether?

Add the digits together and find the digit sum of this answer.

A Bar Chart to Show Types of Trees in the Forest

This is the tenth digit needed to unlock the phone and escape the forest.

Clue 1 answers

2	**4**	**8**	**6**	**1**	**0**	**5**	**9**	**3**	**7**

Round this number to the nearest 1000.

3	0	8	6	9	5

Add the digits together and then find the digit sum of this answer.

308 695 rounded to the nearest 1000 is 309 000.
3 + 9 = 12
1 + 2 = **3**

This is the **first** digit of the number needed to unlock the phone and escape the forest.

Reveal answer

3

Clue 2 answers

2	**4**	**8**	**6**	**1**	**0**	**5**	**9**	**3**	**7**

Are these comparison statements true or false?

6.805 < 6.850
Reveal answer
True

5.029 < 5.02
Reveal answer
False

3.10 < 3.104
Reveal answer
True

If there are more **true** statements, then the **second** digit needed to escape the forest is: **1**

If there are more **false** statements, then the **second** digit needed to escape the forest is: **8**

Reveal answer

1

Clue 3 answers

A	B	C	D	E	F	G	H	I	J	K	L	M
18	21	24	27	28	33	36	42	44	48	49	54	56

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
63	66	72	77	81	84	88	96	99	108	121	132	144

Calculation	Answer	Letter
8 × 9	72	p
7 × 8	56	m
7^2	49	k
☐ ÷ 7 = 9	63	n

Calculation	Answer	Letter
☐ ÷ 9 = 8	72	p
4 × 11	44	i
☐ ÷ 8 = 12	96	u
12 × 7	84	s

Use the code breaker to reveal a mixed-up autumn word. Find the matching object card to reveal the **third** digit needed to unlock the phone and escape the forest.
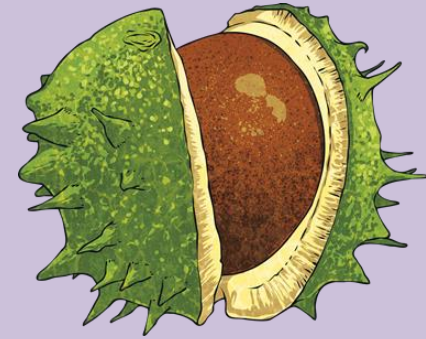
Pumpkins = 5

Reveal answer

5

Clue 4 answers

Solve the number puzzle by using inverse operations.

I collect some conkers in the forest.

I divide the number of conkers by 4.

I then subtract 84,

and divide by 9.

I end with the number 7.
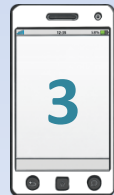
How many conkers did I collect?   **588 conkers**

Add together the digits and find the digit sum of this answer.

588 = 5 + 8 + 8 = 21
2 + 1 = 3

This is the **fourth** digit of the number needed to unlock the phone and escape the forest.

Reveal answer

3

Clue 5

🌰	🍂	🎆	🎃	🦔	🧤	🔥	🌰	🐿️	🚜
2	4	8	6	1	0	5	9	3	7

Calculate the answer to this addition calculation:

Which digit occurs most frequently in the answer?

	🎃	🎆	🌰	🧤	🔥	🚜
+		🐿️	🍂	🎆	🚜	🌰
	7	**2**	**3**	**9**	**3**	**6**

689 057 + 34 879 = 72**3** 9**3**6

This answer is the **fifth** digit of the number needed to unlock the phone and escape the forest.

Reveal answer

3

Clue 6

2	4	8	6	1	0	5	9	3	7

Calculate the answer to this subtraction calculation:

	🚜	🧤	🎃	🧤	🌰	🦔
-		🦔	🍁	🎆	🚜	🎃
	6	**9**	**1**	**2**	**1**	**5**

706 091 - 14 876 = **6**91 215

The digit in the hundred thousand place in the answer is the **sixth** digit of the number needed to unlock the phone and escape the forest.

Reveal answer

6

Clue 7

How many boxes fireworks are there? Find $\frac{5}{6}$ of this number.

$\frac{5}{6}$ of 18 = **15**

Find the digit sum of this answer.   1 + 5 = **6**

This is the **seventh** digit you need to escape the forest.

Reveal answer

6

Clue 8

During a blustery, autumn walk in the forest, Oscar collected between 150 and 200 acorns.

When counted in sevens, there are three left over. When counted in nines, there are two left over.

How many acorns did Oscar collect?   **164 acorns**

Find the difference between the tens digit and ones digit.

164 acorns
6 - 4 = **2**

This is the **eighth** digit of the number needed to unlock the phone and escape the forest.

Reveal answer

2

Clue 9

y-axis

9
8
7
6
5
4
3
2
1

-5 -4 -3 -2 -1 0 1 2 3 4 5
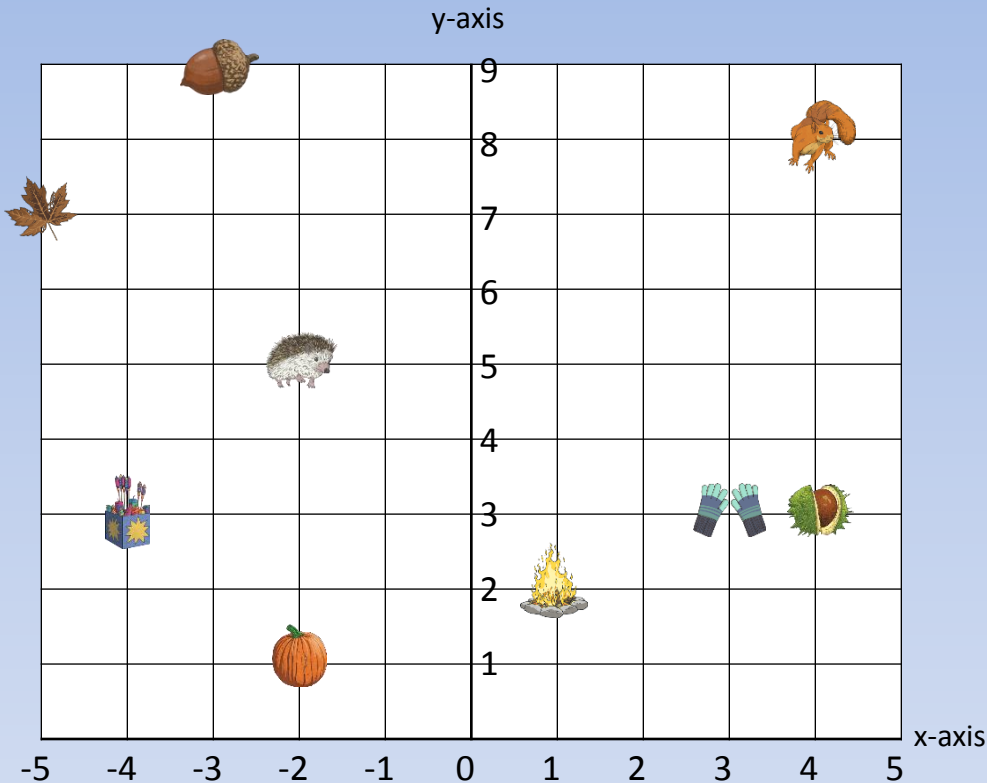
x-axis

What is the coordinate position of the 🎃

What is the coordinate position of the 🧤

🎃 = (-2, 1)

🧤 = (3, 3)

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

-2 + 3 = **1**

This is the **ninth** digit of the number needed to unlock the phone and escape the forest.

Reveal answer

1

Clue 10

How many oak, willow and hawthorn trees are there in the forest altogether?
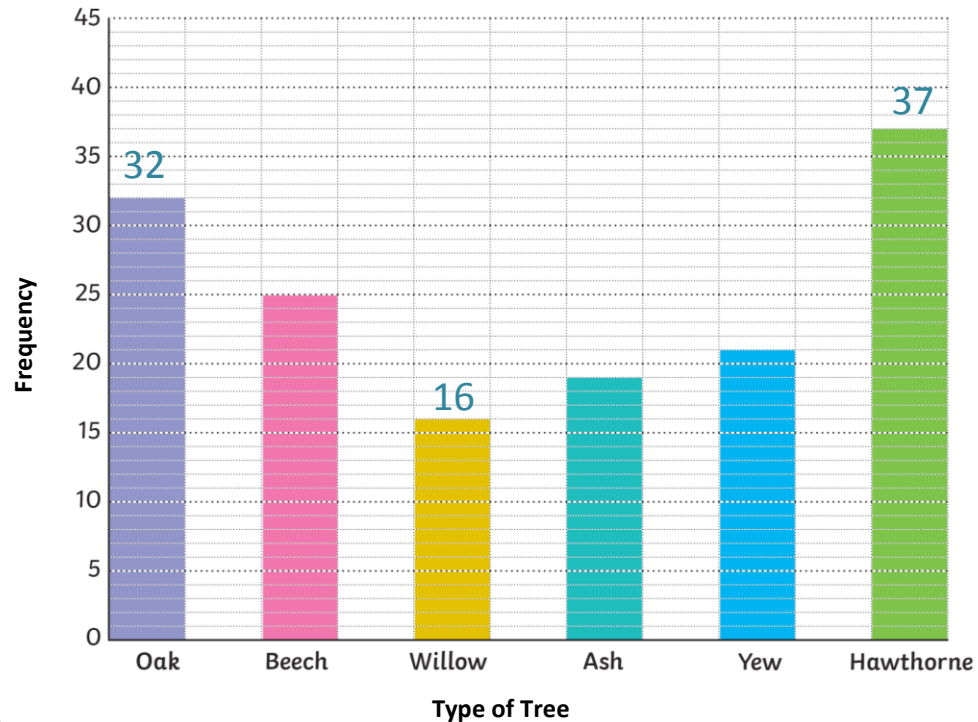
Add the digits together and find the digit sum of this answer.

32 + 16 + 37 = 85

85 = 8 + 5 = 13

1 + 3 = **4**

A Bar Chart to Show Types of Trees in the Forest

This is the tenth digit needed to unlock the phone and escape the forest.

Reveal answer

4

Have you escaped the forest? Did you get the correct code?