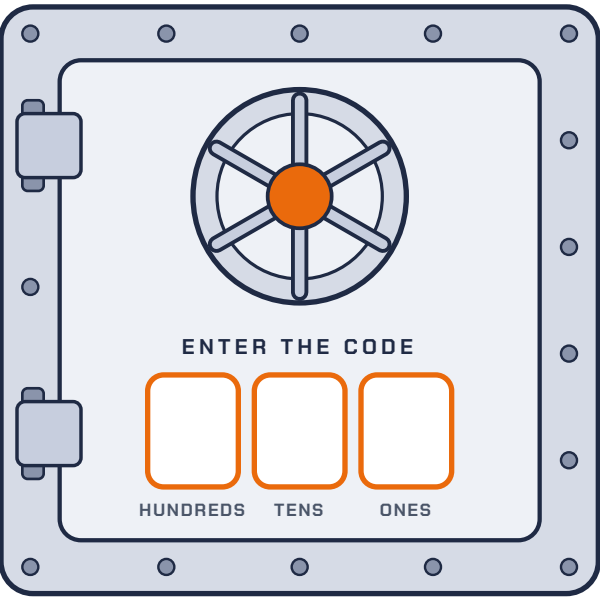


Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES Tick each clue when your code passes it.

- 1 The code is greater than 500. ☐
- 2 The digits add up to 15. ☐
- 3 The ones digit is the greatest digit. ☐
- 4 The tens digit times the ones digit is 24. ☐

Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 4 helper

Write each way to make 24: tens digit $\times$ ones digit.

_____ $\times$ _____

_____ $\times$ _____

_____ $\times$ _____

_____ $\times$ _____

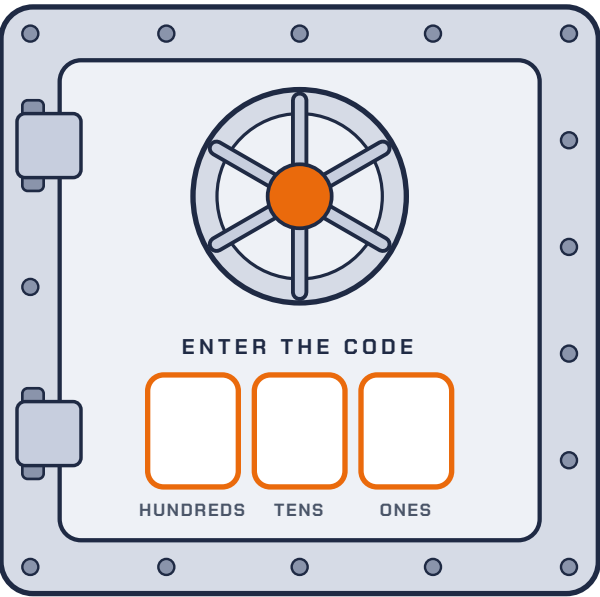
3 A wrong try

Agent Kai typed 438 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES Tick each clue when your code passes it.

-  The hundreds digit times the tens digit is 16. ☐
-  The code is less than 400. ☐
-  The ones digit is odd. ☐
-  You say the code when you skip count by 5s from 0. ☐

Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 1 helper

Write each way to make 16: hundreds digit $\times$ tens digit.

_____ $\times$ _____

_____ $\times$ _____

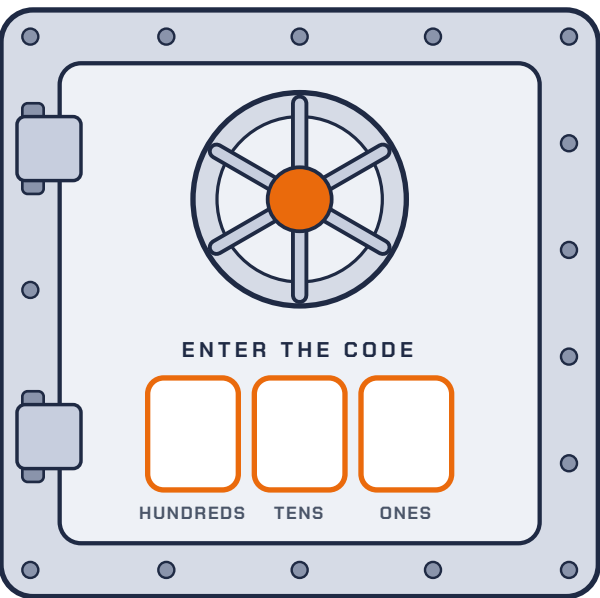
3 A wrong try

Agent Kai typed 280 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES Tick each clue when your code passes it.

- 1

The hundreds digit times the tens digit is 35.

☐
- 2

The ones digit is even.

☐
- 3

The code is greater than 600.

☐
- 4

The ones digit is the greatest digit.

☐

Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 1 helper

Write each way to make 35: hundreds digit × tens digit.

_____ × _____ _____ × _____

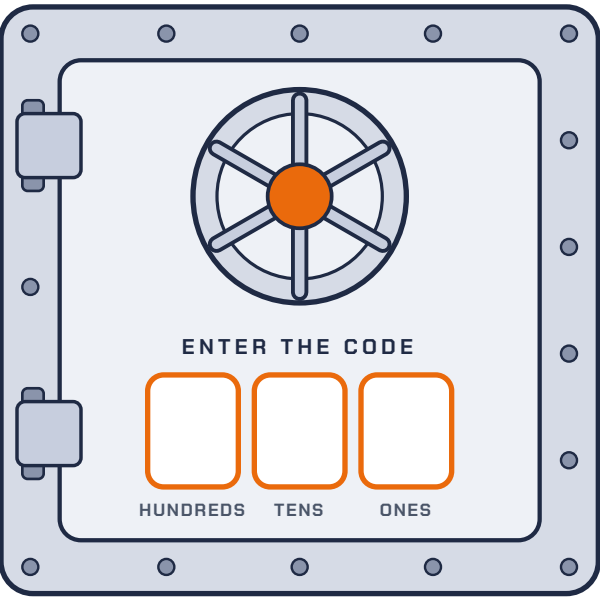
3 A wrong try

Agent Kai typed 756 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES Tick each clue when your code passes it.

-  The tens digit is even. ☐
-  The tens digit is 1 more than the hundreds digit. ☐
-  The tens digit times the ones digit is 36. ☐
-  The code is greater than 500. ☐

Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 3 helper

Write each way to make 36: tens digit $\times$ ones digit.

_____ $\times$ _____

_____ $\times$ _____

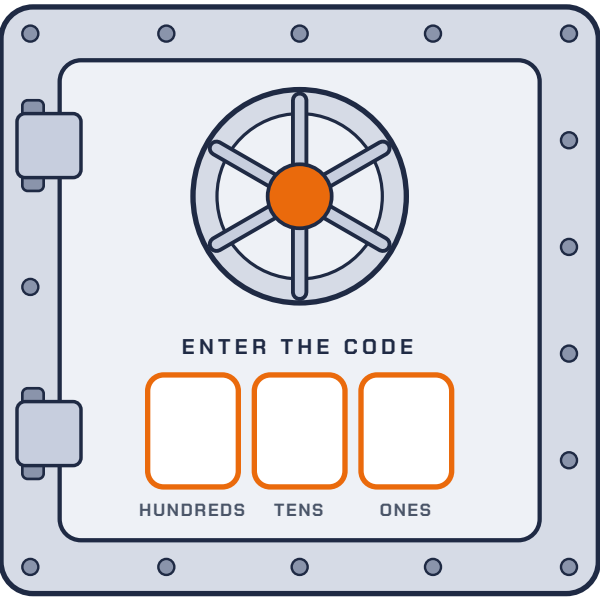
3 A wrong try

Agent Kai typed 549 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

The vault opens with a 3-digit code. Use all three clues to find it. Clue 1 is crossed out on the board for you.



THE CLUES Tick each clue when your code passes it.

-  The code is less than 300. ☐
-  The hundreds digit is double the tens digit. ☐
-  The ones digit is 2 more than the tens digit. ☐

Tip: cross out digits on the board as you go.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place. **Clue 1 is done for you.**

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☒	☒	☒	☒	☒	☒	☒
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 2 helper

Write each pair that fits: the hundreds digit and the tens digit.

_____ and _____

_____ and _____

_____ and _____

_____ and _____

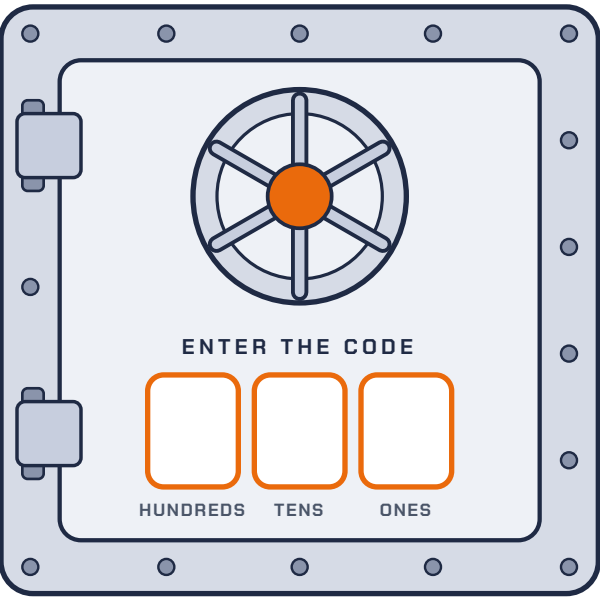
3 A wrong try

Agent Kai typed 216 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

The vault opens with a 3-digit code. Use all three clues to find it. Clue 1 is crossed out on the board for you.



THE CLUES Tick each clue when your code passes it.

-  The code is greater than 800. ☐
-  The digits add up to 14. ☐
-  The ones digit is 4 more than the tens digit. ☐

Tip: cross out digits on the board as you go.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place. **Clue 1 is done for you.**

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 3 helper

Write each pair that fits: the tens digit and the ones digit.

____ and ____ ____ and ____ ____ and ____
____ and ____ ____ and ____ ____ and ____

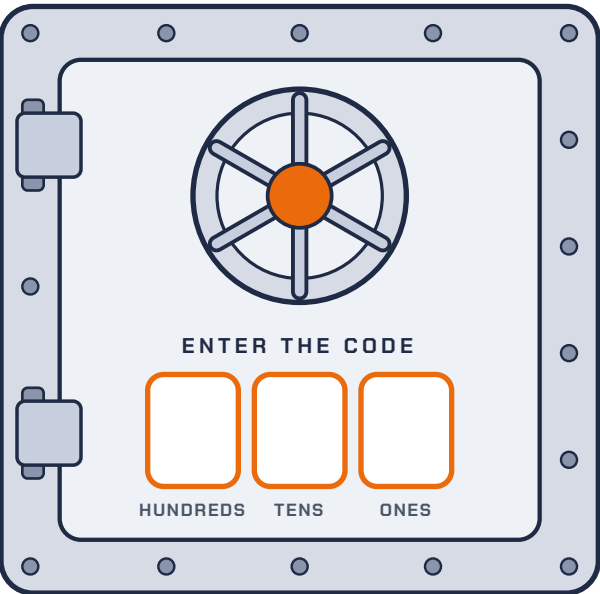
3 A wrong try

Agent Kai typed 915 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

Five clues, one code. Every clue is needed, even the ones that seem to say very little.



THE CLUES Tick each clue when your code passes it.

- ☐ 1 The hundreds digit is odd.
- ☐ 2 The code has no 7 in it.
- ☐ 3 From left to right, the digits change by the same amount each time.
- ☐ 4 The code is greater than 500.
- ☐ 5 The digits add up to 12.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Think it through

Clues 3 and 5 together tell you the tens digit.
What is it? Why?

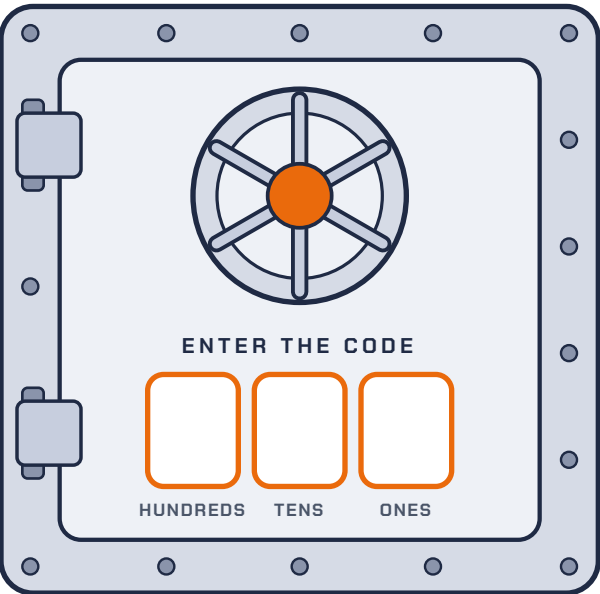
3 Is Kai right?

Agent Kai says clue 2 is not needed. Prove Kai wrong: find a code that passes every other clue but not clue 2.

This code passes the others: _____

Crack the Vault

Five clues, one code. Every clue is needed, even the ones that seem to say very little.



THE CLUES Tick each clue when your code passes it.

- ☒ 1 The ones digit is even. ☐
- ☒ 2 The tens digit is the sum of the other two digits. ☐
- ☒ 3 The code is less than 400. ☐
- ☒ 4 The code has no 0 in it. ☐
- ☒ 5 Two of the digits are the same. ☐

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Think it through

Which two digits are the same? How do you know?

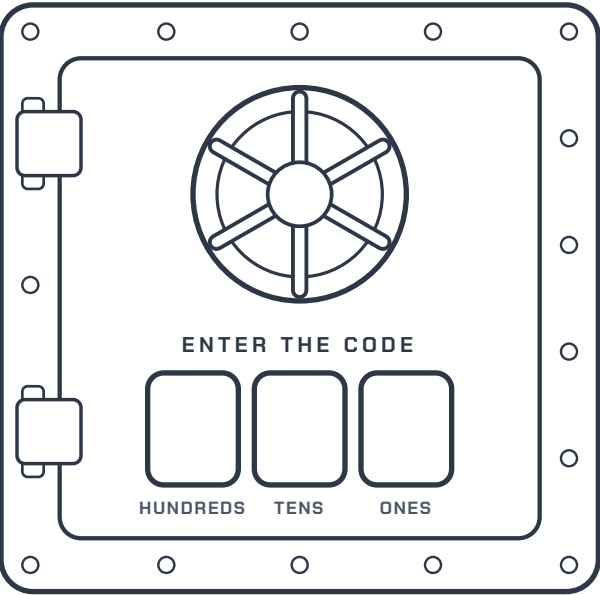
3 Is Kai right?

Agent Kai says clue 4 is not needed. Prove Kai wrong: find a code that passes every other clue but not clue 4.

This code passes the others: _____

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES Tick each clue when your code passes it.

-  1 The code is greater than 500. ☐
-  2 The digits add up to 15. ☐
-  3 The ones digit is the greatest digit. ☐
-  4 The tens digit times the ones digit is 24. ☐

Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 4 helper

Write each way to make 24: tens digit $\times$ ones digit.

_____ $\times$ _____

_____ $\times$ _____

_____ $\times$ _____

_____ $\times$ _____

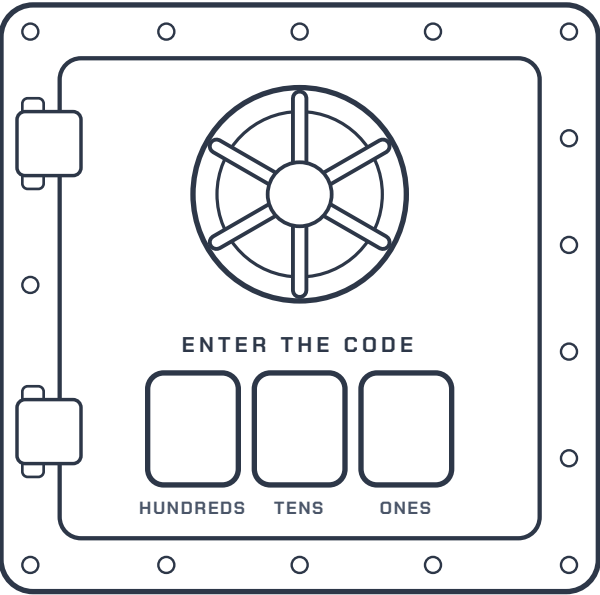
3 A wrong try

Agent Kai typed 438 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES

 Tick each clue when your code passes it.

-  1

 The hundreds digit times the tens digit is 16. ☐
-  2

 The code is less than 400. ☐
-  3

 The ones digit is odd. ☐
-  4

 You say the code when you skip count by 5s from 0. ☐

Tip: start with the clue that leaves the fewest choices.

1

 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2

 Clue 1 helper

Write each way to make 16: hundreds digit $\times$ tens digit.

_____ $\times$ _____

_____ $\times$ _____

3

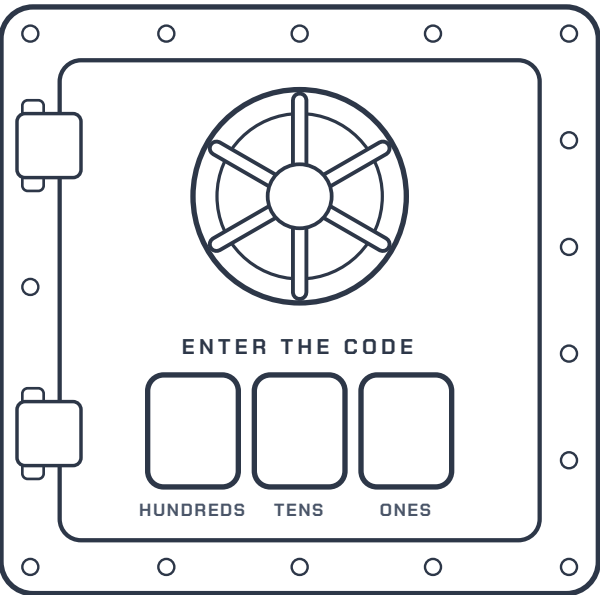
 A wrong try

Agent Kai typed 280 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES

 Tick each clue when your code passes it.

-  1

 The hundreds digit times the tens digit is 35. ☐
-  2

 The ones digit is even. ☐
-  3

 The code is greater than 600. ☐
-  4

 The ones digit is the greatest digit. ☐

Tip: start with the clue that leaves the fewest choices.

1

 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2

 Clue 1 helper

Write each way to make 35: hundreds digit × tens digit.

_____ × _____ _____ × _____

3

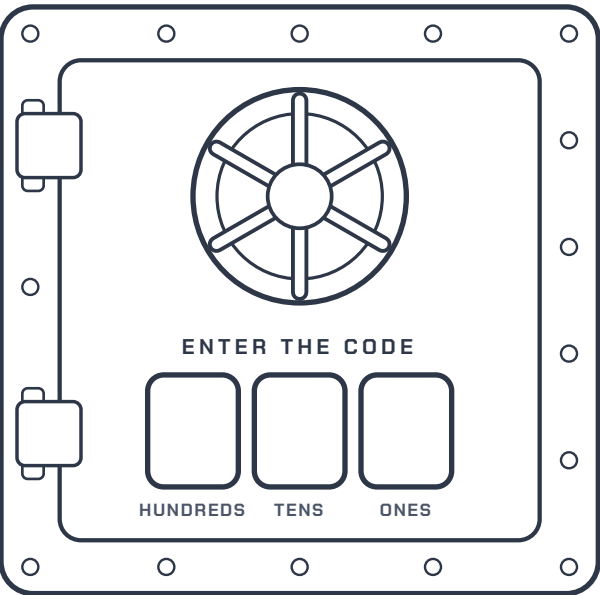
 A wrong try

Agent Kai typed 756 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES Tick each clue when your code passes it.

-  1 The tens digit is even. ☐
-  2 The tens digit is 1 more than the hundreds digit. ☐
-  3 The tens digit times the ones digit is 36. ☐
-  4 The code is greater than 500. ☐

Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 3 helper

Write each way to make 36: tens digit × ones digit.

×

×

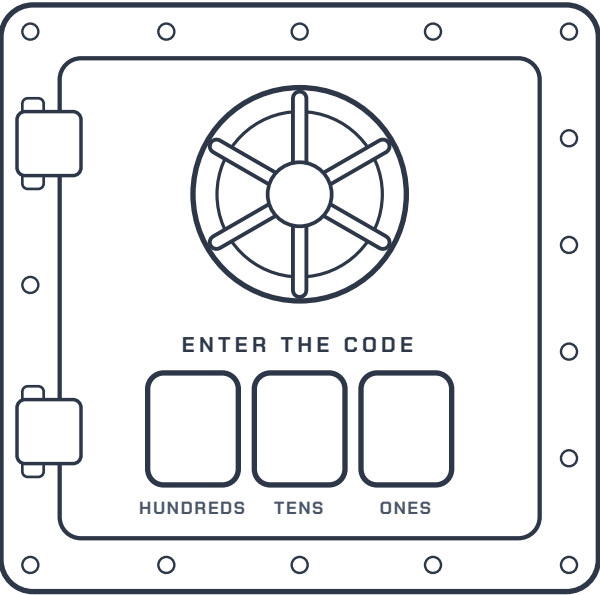
3 A wrong try

Agent Kai typed 549 and the vault stayed locked. Which clue proves Kai wrong?

Clue because

Crack the Vault

The vault opens with a 3-digit code. Use all three clues to find it. Clue 1 is crossed out on the board for you.



THE CLUES

Tick each clue when your code passes it.

-  1

The code is less than 300.

☐
-  2

The hundreds digit is double the tens digit.

☐
-  3

The ones digit is 2 more than the tens digit.

☐

Tip: cross out digits on the board as you go.

1

Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

Clue 1 is done for you.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☒	☒	☒	☒	☒	☒	☒
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2

Clue 2 helper

Write each pair that fits: the hundreds digit and the tens digit.

_____ and _____

_____ and _____

_____ and _____

_____ and _____

3

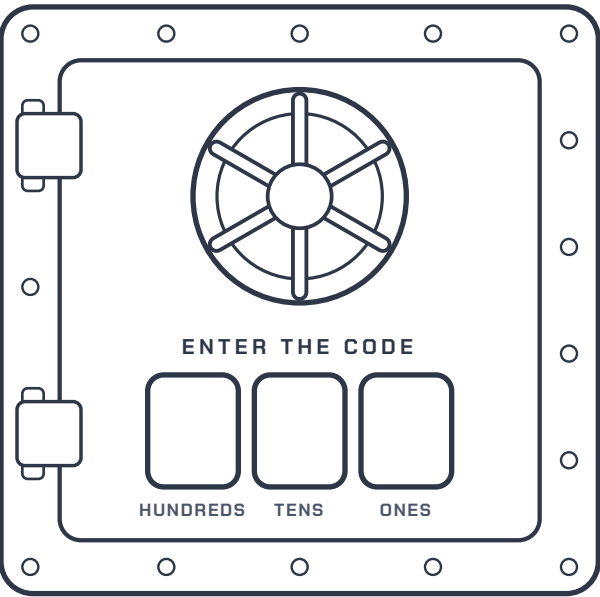
A wrong try

Agent Kai typed 216 and the vault stayed locked. Which clue proves Kai wrong?

Clue _____ because _____

Crack the Vault

The vault opens with a 3-digit code. Use all three clues to find it. Clue 1 is crossed out on the board for you.



THE CLUES Tick each clue when your code passes it.

- The code is greater than 800.

☐
- The digits add up to 14.

☐
- The ones digit is 4 more than the tens digit.

☐

Tip: cross out digits on the board as you go.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place. **Clue 1 is done for you.**

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2 Clue 3 helper

Write each pair that fits: the tens digit and the ones digit.

____ and ____ ____ and ____ ____ and ____
____ and ____ ____ and ____ ____ and ____

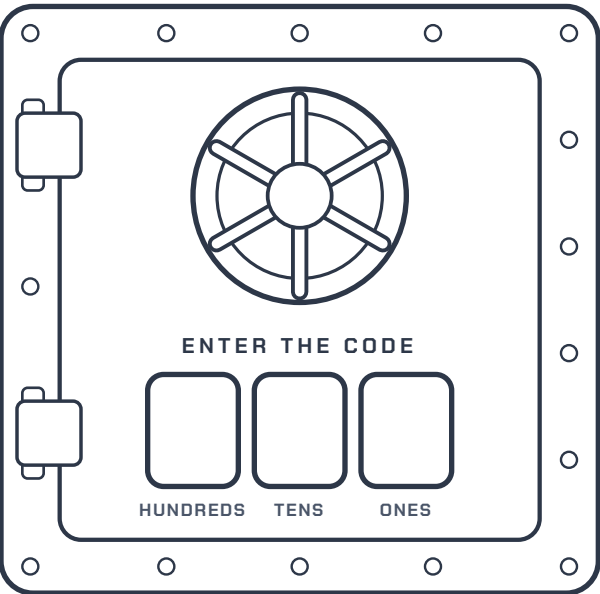
3 A wrong try

Agent Kai typed 915 and the vault stayed locked. Which clue proves Kai wrong?

Clue ____ because _____

Crack the Vault

Five clues, one code. Every clue is needed, even the ones that seem to say very little.



THE CLUES

 Tick each clue when your code passes it.

-  The hundreds digit is odd. ☐
-  The code has no 7 in it. ☐
-  From left to right, the digits change by the same amount each time. ☐
-  The code is greater than 500. ☐
-  The digits add up to 12. ☐

1

 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2

 Think it through

Clues 3 and 5 together tell you the tens digit.
What is it? Why?

3

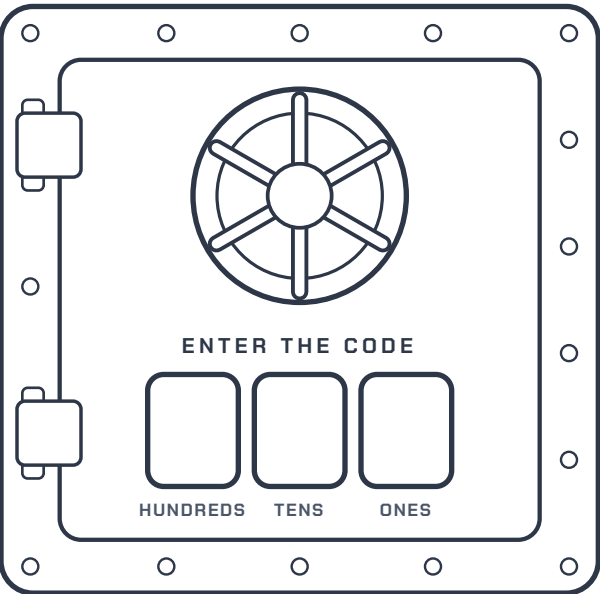
 Is Kai right?

Agent Kai says clue 2 is not needed. Prove Kai wrong: find a code that passes every other clue but not clue 2.

This code passes the others: _____

Crack the Vault

Five clues, one code. Every clue is needed, even the ones that seem to say very little.



THE CLUES

 Tick each clue when your code passes it.

-  1 The ones digit is even. ☐
-  2 The tens digit is the sum of the other two digits. ☐
-  3 The code is less than 400. ☐
-  4 The code has no 0 in it. ☐
-  5 Two of the digits are the same. ☐

1

 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Tens	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Ones	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

2

 Think it through

Which two digits are the same? How do you know?

3

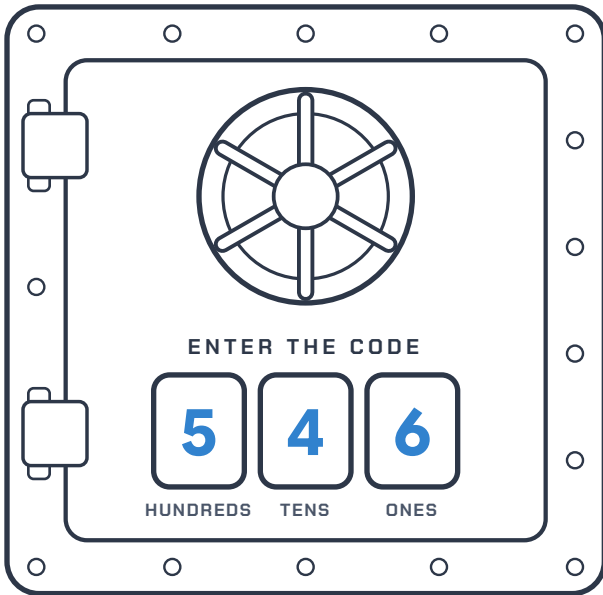
 Is Kai right?

Agent Kai says clue 4 is not needed. Prove Kai wrong: find a code that passes every other clue but not clue 4.

This code passes the others: _____

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES

Tick each clue when your code passes it.



The code is greater than 500.



The digits add up to 15.



The ones digit is the greatest digit.



The tens digit times the ones digit is 24.



Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☒	☒	☒	☐	☒	☒	☒	☒
Tens	☒	☒	☒	☒	☐	☒	☒	☒	☒	☒
Ones	☒	☒	☒	☒	☒	☒	☐	☒	☒	☒

2 Clue 4 helper

Write each way to make 24: tens digit $\times$ ones digit.

$$\underline{3} \times \underline{8}$$

$$\underline{4} \times \underline{6}$$

$$\underline{6} \times \underline{4}$$

$$\underline{8} \times \underline{3}$$

3 A wrong try

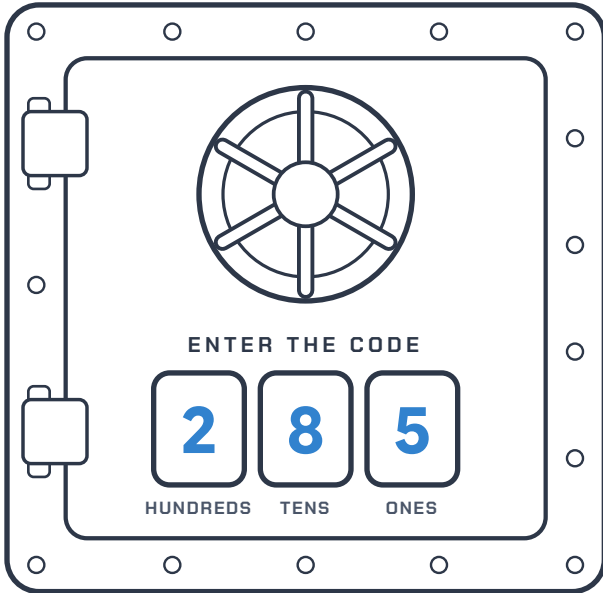
Agent Kai typed 438 and the vault stayed locked. Which clue proves Kai wrong?

Clue 1 because

438 is not greater than 500.

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES

Tick each clue when your code passes it.



The hundreds digit times the tens digit is 16.



The code is less than 400.



The ones digit is odd.



You say the code when you skip count by 5s from 0.



Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☐	☒	☒	☒	☒	☒	☒	☒
Tens	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒
Ones	☒	☒	☒	☒	☒	☐	☒	☒	☒	☒

2 Clue 1 helper

Write each way to make 16: hundreds digit $\times$ tens digit.

$$2 \times 8$$

$$4 \times 4$$

$$8 \times 2$$

3 A wrong try

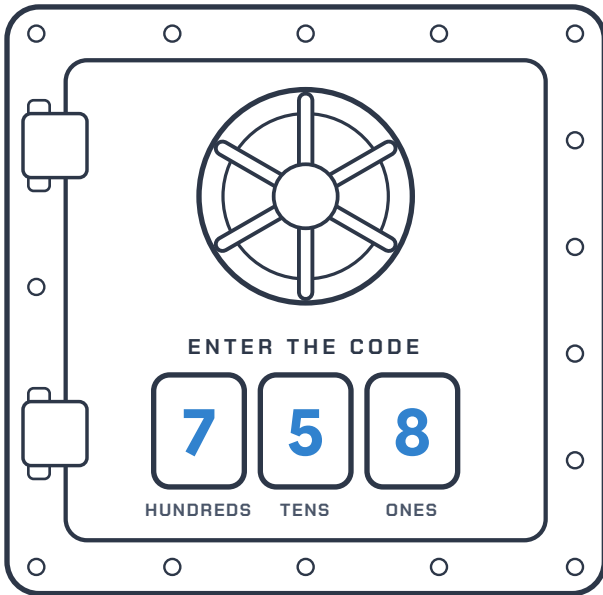
Agent Kai typed 280 and the vault stayed locked. Which clue proves Kai wrong?

Clue 3 because

Its ones digit, 0, is even.

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES

Tick each clue when your code passes it.



The hundreds digit times the tens digit is 35.



The ones digit is even.



The code is greater than 600.



The ones digit is the greatest digit.



Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒
Tens	☒	☒	☒	☒	☒	☐	☒	☒	☒	☒
Ones	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒

2 Clue 1 helper

Write each way to make 35: hundreds digit $\times$ tens digit.

$$\underline{5} \times \underline{7}$$

$$\underline{7} \times \underline{5}$$

3 A wrong try

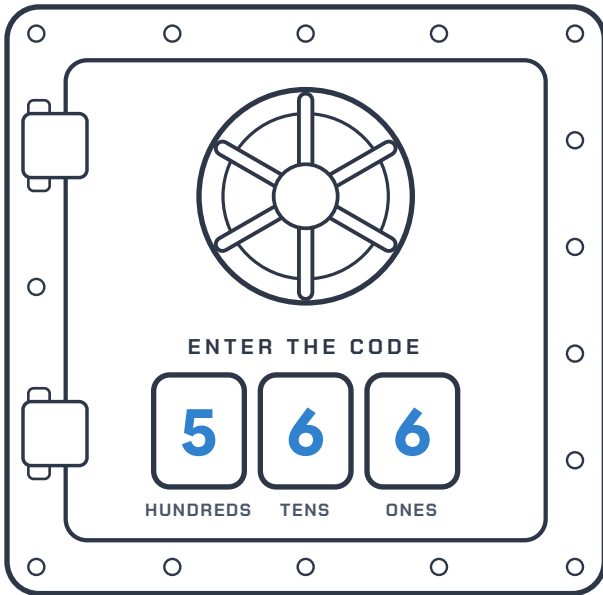
Agent Kai typed 756 and the vault stayed locked. Which clue proves Kai wrong?

Clue 4 because

Its ones digit is not the greatest.

Crack the Vault

The vault opens with a 3-digit code. Every clue below is true, and you will need all of them. There is only one code that works.



THE CLUES

Tick each clue when your code passes it.



The tens digit is even.



The tens digit is 1 more than the hundreds digit.



The tens digit times the ones digit is 36.



The code is greater than 500.



Tip: start with the clue that leaves the fewest choices.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☒	☒	☒	☐	☒	☒	☒	☒
Tens	☒	☒	☒	☒	☒	☒	☐	☒	☒	☒
Ones	☒	☒	☒	☒	☒	☒	☐	☒	☒	☒

2 Clue 3 helper

Write each way to make 36: tens digit $\times$ ones digit.

$$4 \times 9$$

$$6 \times 6$$

$$9 \times 4$$

3 A wrong try

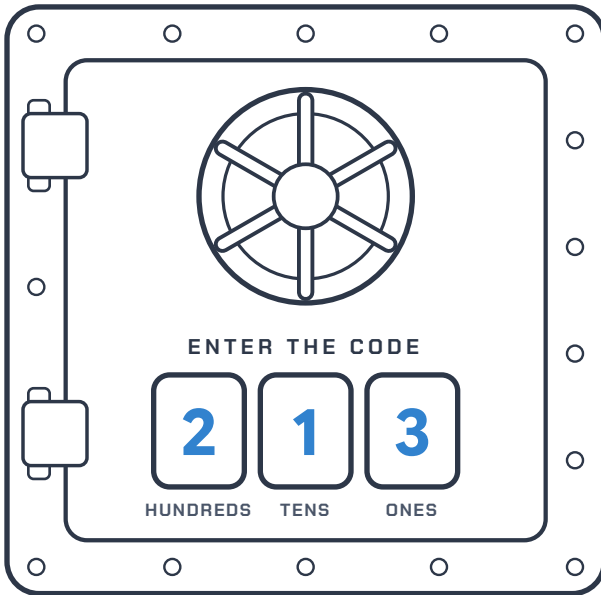
Agent Kai typed 549 and the vault stayed locked. Which clue proves Kai wrong?

Clue 2 because

4 is not 1 more than 5.

Crack the Vault

The vault opens with a 3-digit code. Use all three clues to find it. Clue 1 is crossed out on the board for you.



THE CLUES

Tick each clue when your code passes it.



The code is less than 300.



The hundreds digit is double the tens digit.



The ones digit is 2 more than the tens digit.



Tip: cross out digits on the board as you go.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☐	☒	☒	☒	☒	☒	☒	☒
Tens	☒	☐	☒	☒	☒	☒	☒	☒	☒	☒
Ones	☒	☒	☒	☐	☒	☒	☒	☒	☒	☒

2 Clue 2 helper

Write each pair that fits: the hundreds digit and the tens digit.

2 and 1

4 and 2

6 and 3

8 and 4

3 A wrong try

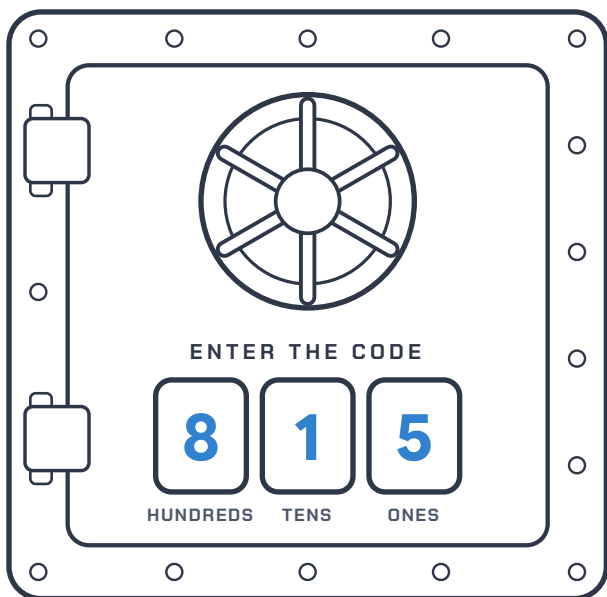
Agent Kai typed 216 and the vault stayed locked. Which clue proves Kai wrong?

Clue 3 because

6 is not 2 more than 1.

Crack the Vault

The vault opens with a 3-digit code. Use all three clues to find it. Clue 1 is crossed out on the board for you.



THE CLUES

Tick each clue when your code passes it.



The code is greater than 800.



The digits add up to 14.



The ones digit is 4 more than the tens digit.



Tip: cross out digits on the board as you go.

1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒
Tens	☒	☐	☒	☒	☒	☒	☒	☒	☒	☒
Ones	☒	☒	☒	☒	☒	☐	☒	☒	☒	☒

2 Clue 3 helper

Write each pair that fits: the tens digit and the ones digit.

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

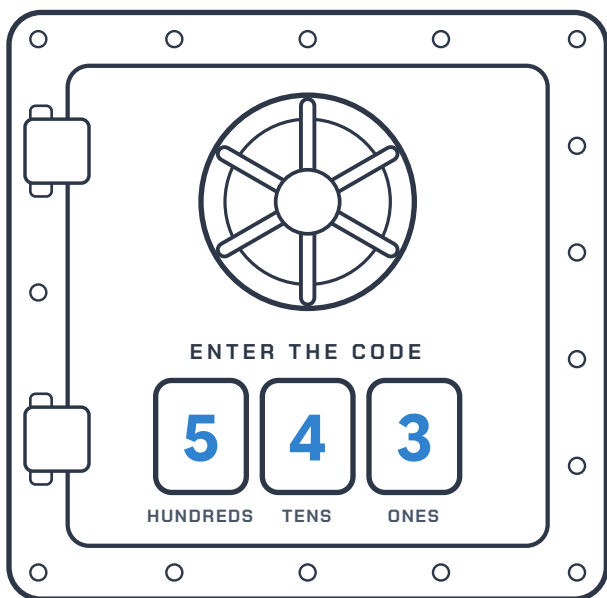
3 A wrong try

Agent Kai typed 915 and the vault stayed locked. Which clue proves Kai wrong?

Clue 2 because
 $9 + 1 + 5 = 15$, not 14.

Crack the Vault

Five clues, one code. Every clue is needed, even the ones that seem to say very little.



THE CLUES

Tick each clue when your code passes it.



The hundreds digit is odd.



The code has no 7 in it.



From left to right, the digits change by the same amount each time.



The code is greater than 500.



The digits add up to 12.



1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☒	☒	☒	☐	☒	☒	☒	☒
Tens	☒	☒	☒	☒	☐	☒	☒	☒	☒	☒
Ones	☒	☒	☒	☐	☒	☒	☒	☒	☒	☒

2 Think it through

Clues 3 and 5 together tell you the tens digit.
What is it? Why?

*4. It is halfway between the other two digits,
so the three digits make three 4s: $3 \times 4 = 12$.*

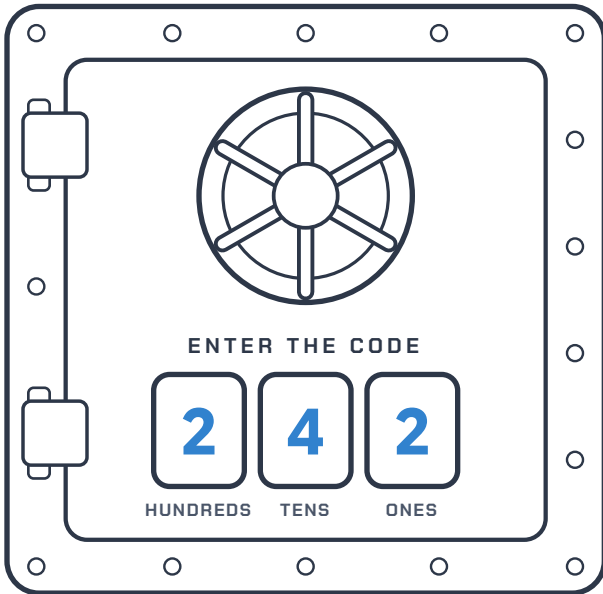
3 Is Kai right?

Agent Kai says clue 2 is not needed. Prove Kai wrong: find a code that passes every other clue but not clue 2.

This code passes the others: 741

Crack the Vault

Five clues, one code. Every clue is needed, even the ones that seem to say very little.



THE CLUES

Tick each clue when your code passes it.



The ones digit is even.



The tens digit is the sum of the other two digits.



The code is less than 400.



The code has no 0 in it.



Two of the digits are the same.



1 Cross out what cannot be

Use the clues to cross out the digits that cannot be in each place.

	0	1	2	3	4	5	6	7	8	9
Hundreds	☒	☒	☐	☒	☒	☒	☒	☒	☒	☒
Tens	☒	☒	☒	☒	☐	☒	☒	☒	☒	☒
Ones	☒	☒	☐	☒	☒	☒	☒	☒	☒	☒

2 Think it through

Which two digits are the same? How do you know?

The hundreds and ones. The tens digit is their sum, so it could only match one of them with a 0.

3 Is Kai right?

Agent Kai says clue 4 is not needed. Prove Kai wrong: find a code that passes every other clue but not clue 4.

This code passes the others: **110**

(220 or 330 also works)