

Crack the code

Read the clues to crack Jake's secret number.

Jake has a 3-digit number **less than 200**.

The **hundred** digit is **half the units** digit.

The **sum** of the **tens** digit and the **units** digit is **9**.

1 7 2

Read the clues to discover Zac's 4-digit secret number.

The digit in the **tens** place is **4**.

The **hundred** digit is **twice the tens** digit.

The **thousand** digit is **double the unit** digit.

The **sum** of **all four** digits is **15**.

2 8 4 1

3 4 8

One number is correct
and in the correct place.

8 5 4

Nothing is correct.

8 9 3

Two numbers are correct
but both in the wrong place.

5 9 1

Two numbers are correct
but in the wrong places.

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Code**

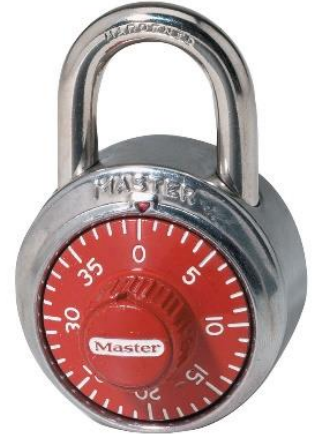


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The code is 3 1 9

Extension:

The knob in the middle of the padlock turns both clockwise and anticlockwise.



Let's find the 4 digit mystery code to open this lock.

Start at 0. Turn the knob 1 right angle clockwise. The first two digits of the number under the arrow are the first two digits of the code.

Start at 0 once again. Turn the knob 2 right angles anticlockwise. The digits of the number under the arrow are the 3rd and 4th digits of the mystery code.

The mystery code is 3 0 2 0