Spot the Pattern

1) Use the place value chart to help you complete the calculations.

H	T	O

a) 553 + 3 = _____

b) 553 − 3 = _____

c) 553 + 30 = _____

d) 553 − 30 = _____

e) 553 + 300 = _____

f) 553 − 300 = _____

2) Use the place value chart to help you complete the calculations.

H	T	O
100 100	10 10	1 1
100 100	10 10	1 1
100	10	1

a) 555 + 4 = _____

b) 555 − 4 = _____

c) 555 + 40 = _____

d) 555 − 40 = _____

e) 555 + 400 = _____

f) 555 − 400 = _____

g) Complete the sentences.

The hundreds column increases by _____, the tens column increases by _____, the ones column increases by _____.

The hundreds column decreases by _____, the tens column decreases by _____, the ones column decreases by _____.

3) Complete the missing numbers.

a) 351 + _____ = 371

b) 351 − 20 = _____

c) _____ + 200 = 871

d) _____ − 50 = 428

e) 289 + _____ = 789

f) 634 − 500 = _____

Scan here for help!

Spot the Pattern

1) Jia has been completing some calculations. Do you agree? Explain your answer.

Jia: I know 5 − 3 = 2
so these must also be correct.
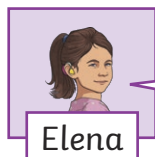555 − 3 = 552
555 − 30 = 522
555 − 300 = 222

_____
_____
_____
_____
_____

2) Three children have completed these calculations. Can you spot any mistakes? Explain your reasoning.

Elena: 756 + 3 = 753

Hari: 756 − 30 = 456

Felix: 756 − 300 = 456

_____
_____
_____
_____
_____

3) Is this true or false? Prove it!

Drew: Adding 10 to a 3-digit number will only ever make the tens digit change.
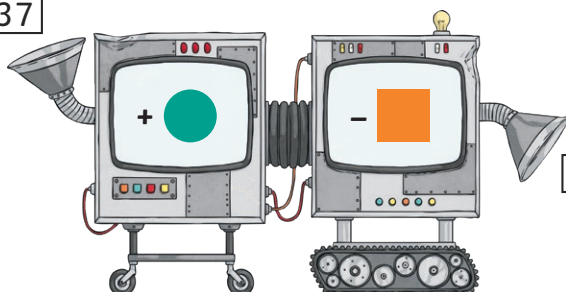
_____
_____
_____
_____

Spot the Pattern

1) Use the clues to find out what the missing numbers in the function machine are.

Abi: ⬤ is a multiple of 10.

Zeke: 🟧 is a 3-digit multiple of 100.

837

+ ⬤   − 🟧

357

2) Priya makes this number in a place value chart.

H	T	O

Priya: I add two base ten to a column and remove three base ten from a different column.

What could her number be now?
Find all possibilities.

3) Bartek is thinking about a number.

Bartek: My starting number is 719.
I add 30.
I subtract 200.
I subtract 4.
I repeat these steps once.
What is my number?