Spot the pattern – making it explicit

1 Complete the number sentences.

Use the place value chart to help you.

H	T	O

a) 222 + 6 = ☐

b) 222 + 60 = ☐

c) 222 + 600 = ☐

What do you notice?

2 Complete the number sentences.

Use the place value chart to help you.

H	T	O

a) 777 − 400 = ☐

b) 777 − 40 = ☐

c) 777 − 4 = ☐

What do you notice?

3 Complete the number sentences.

a) 315 + 200 = ☐

315 + 20 = ☐

315 + 2 = ☐

b) 748 − 200 = ☐

748 − 20 = ☐

748 − 2 = ☐

c) 405 + 30 = ☐

405 + 50 = ☐

405 + 90 = ☐

d) 635 − 300 = ☐

635 − 500 = ☐

635 − 600 = ☐

4 Amir makes this number on a place value chart.

H	T	O

a) Amir adds some counters to the chart.
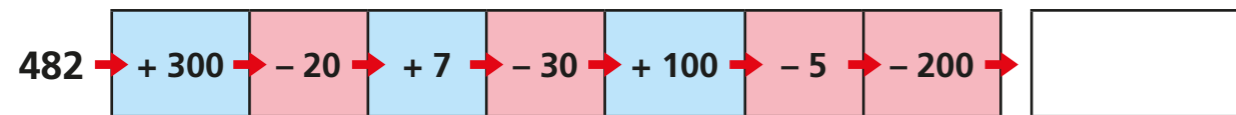
He now has the number 736

What counters did Amir add?

_____

b) Amir removes 3 counters from one of the columns.

What numbers could he have now?

_____

5 Work out the missing number.

482 → + 300 → − 20 → + 7 → − 30 → + 100 → − 5 → − 200 → ☐

6 Complete the sentences.

a) 500 more than 238 is equal to ☐

b) 528 is ☐ more than 228

c) 727 is ☐ less than 729

d) 64 is ☐ less than 364

e) 429 is 20 more than ☐

f) 429 is 20 less than ☐

7 Here is a number machine.

IN → + 200 → + 20 → + 2 → OUT
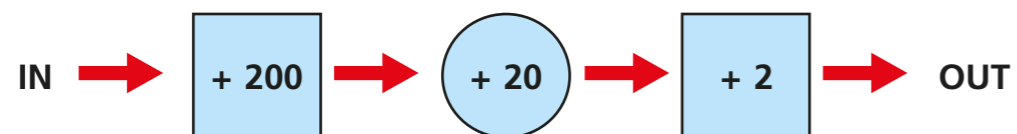
a) If 476 goes into the machine, what number comes out?

☐

b) If 476 comes out of the machine, what number went in?

☐

How did you work this out?

_____

_____

8

When you add 3 tens to a number, the only column that changes is the tens column.

Is Dora correct? _____

Explain your answer.

_____

_____