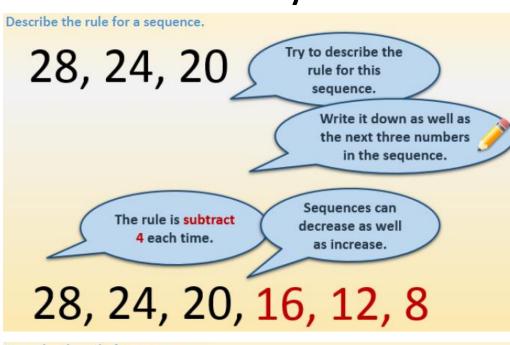# Year 3 – Week 2 – Day 1

Describe the rule for a sequence.

28, 24, 20

Try to describe the rule for this sequence.

Write it down as well as the next three numbers in the sequence.

The rule is **subtract 4 each time.**

Sequences can decrease as well as increase.

28, 24, 20, 16, 12, 8

Describe the rule for a sequence.

2, 6, 10

Now look at this sequence. Can you describe the rule?

Write it down as well as the next three numbers in the sequence.

The rule is **add 4 each time.**

2, 6, 10, 14, 18, 22
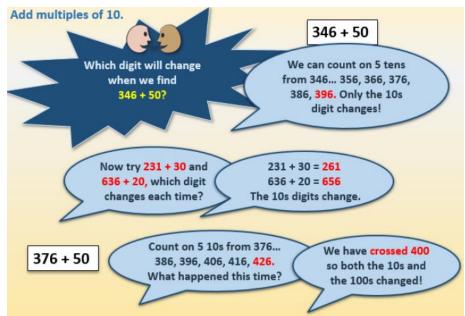
Write the next three numbers as well as the rule for each sequence.

1.   2, 6, 10, ☐ , ☐ , ☐ .

Rule: _____

2.   12, 22, 32, ☐ , ☐ , ☐ .

Rule: _____

3.   48, 40, 32, ☐ , ☐ , ☐ .

Rule: _____

4.   90, 80, 70, ☐ , ☐ , ☐ .

Rule: _____

5.   22, 30, 38, ☐ , ☐ , ☐ .

Rule: _____

Add multiples of 10.

Which digit will change when we find **346 + 50?**

346 + 50

We can count on 5 tens from 346... 356, 366, 376, 386, **396.** Only the 10s digit changes!

Now try **231 + 30** and **636 + 20,** which digit changes each time?

231 + 30 = **261**
636 + 20 = **656**
The 10s digits change.

376 + 50

Count on 5 10s from 376... 386, 396, 406, 416, **426.** What happened this time?

We have **crossed 400** so both the 10s and the 100s changed!

Subtract multiples of 10.

Now let's try **subtracting** 10s...

386 - 50

Which digit changes?

We can **count back** five 10s from 386... 376, 366, 356, 346, **336.** Only the 10s digit changes!

Now try **336 – 50.**

What will happen this time?

Let's **count back** five 10s from 336... 326, 316, 306, 296, **286.**

Both the 100s and the 10s digit change; we have crossed a **multiple of 100.**

1. Sophie had collected 58 football stickers. Then she bought 20 more. How many does she have now?

2. Kent cricket club scored 172 runs in their first innings. They scored a further 300 runs in their second innings. What is their total score?

3. Emily had 96 Lego™ minifigures. She decided to give 70 away. How many did she have left?

4. George had 341 days to wait until his birthday. After 200 days wait, how many days were left until the big day?

5. There are 273 people in the audience. 40 more people come in. How many altogether?

6. There were 222 ants in the colony. If 300 more move in, how many would be in the colony?

7. There were 554 fish in a shoal. 50 were eaten by some passing sharks! How many fish are left?

8. There were 735 people on the beach. 400 left because it got too hot. How many were left?