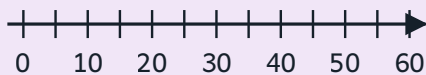


FIND THE NEXT NUMBER AFTER 3, 6, 9

- 1 Look at the jump from **3** to **6**. The pattern goes up by 3.
- 2 Check the jump from **6** to **9**. It also goes up by 3.
- 3 The rule is add 3 each time, so the number after 9 is **12**.

WARM-UP

Mark the pattern numbers on the blank number line and show the equal hops.



1. Mark 2, 4, 6 and 8 on the line for the crayon pattern and draw the hops of 2.
2. Mark 5, 10 and 15 on the line and draw the hops of 5.
3. Mark 50, 45 and 40 on the line and draw the steps back of 5.

PRACTICE

- 1 Sam lines up crayons on his desk in the pattern **17**, **19**, **21**, **23**. How many crayons come next?
- 2 The class counts out stickers in groups: **26**, **31**, **36**. What number of stickers comes next?
- 3 Mia counts classroom chairs starting at **0** and adding **4** each time: **0**, **4**, **8**, **12**, **16**. What is the next number?
- 4 Pupils leave the classroom two at a time from a line of **20**, then **18**, then **16**. How many are left next?
- 5 On the classroom number chart the rule is add **4** each time. What number comes after **16**?

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
|--|--|
| a. The jump between numbers in a counting pattern is the same size each time. ☐ | c. A number pattern goes up. ☐ |
| b. A pattern that goes up by 5 will add 5 again to find the next number. ☐ | d. You can find the rule by looking at only the first number. ☐ |

IRISH FACT **Counting Luas stops**

The Luas Green Line has **35 stops** from end to end. Counting on in **5s** — **5, 10, 15, 20, 25, 30, 35** — lands exactly on the full line.

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REFLECT Once you spotted the step, was it easy to keep the pattern going?