

Number sequences

Complete the number sequences by filling in the spaces below. State whether they are ascending or descending order.

								Ascending or descending?
1.	13,	25,	37,	____,	____,	____,	____,	_____
2.	20,	31,	42,	____,	____,	____,	____,	_____
3.	26,	23,	20,	____,	____,	____,	____,	_____
4.	11,	17,	23,	____,	____,	____,	____,	_____
5.	-16,	-9,	-2,	____,	____,	____,	____,	_____
6.	133,	130,	127,	____,	____,	____,	____,	_____
7.	-25,	-20,	-15,	____,	____,	____,	____,	_____
8.	9,	0,	-9,	____,	____,	____,	____,	_____
9.	91,	102,	113,	____,	____,	____,	____,	_____
10.	97,	77,	57,	____,	____,	____,	____,	_____

Think very carefully now. Can you write down the short hand rule for each of the above sequences? The first one has been done for you.

$$NN \text{ (new number)} = LN \text{ (last number)} + 12$$

- | | |
|------------------------|-----------|
| 1. <u>NN = LN + 12</u> | 2. _____ |
| 3. _____ | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |
| 9. _____ | 10. _____ |

Number sequences - answers

Complete the number sequences by filling in the spaces below. State whether they are ascending or descending order.

Ascending or descending?

- | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------------|
| 1. | 13, | 25, | 37, | 49, | 61, | 73, | 85, | Ascending |
| 2. | 20, | 31, | 42, | 53, | 64, | 75, | 86, | Ascending |
| 3. | 26, | 23, | 20, | 17, | 14, | 11, | 8, | Descending |
| 4. | 11, | 17, | 23, | 29, | 35, | 41, | 47, | Ascending |
| 5. | -16, | -9, | -2, | 5, | 12, | 19, | 26, | Ascending |
| 6. | 133, | 130, | 127, | 124, | 121, | 118, | 115, | Descending |
| 7. | -25, | -20, | -15, | -10, | -5, | 0, | 5, | Ascending |
| 8. | 9, | 0, | -9, | -18, | -27, | -36, | -45, | Descending |
| 9. | 91, | 102, | 113, | 124, | 135, | 146, | 157, | Ascending |
| 10. | 97, | 77, | 57, | 37, | 17, | -3, | -23, | Descending |

Think very carefully now. Can you write down the short hand rule for each of the above sequences? The first one has been done for you.

$$NN \text{ (new number)} = LN \text{ (last number)} + 12$$

- | | |
|-------------------------------------|--------------------------------------|
| 1. <u>$NN = LN + 12$</u> | 2. <u>$NN = LN + 11$</u> |
| 3. <u>$NN = LN - 3$</u> | 4. <u>$NN = LN + 6$</u> |
| 5. <u>$NN = LN + 7$</u> | 6. <u>$NN = LN - 3$</u> |
| 7. <u>$NN = LN + 5$</u> | 8. <u>$NN = LN - 9$</u> |
| 9. <u>$NN = LN + 11$</u> | 10. <u>$NN = LN - 20$</u> |