

Identifying number patterns - answers

The answers are given in **bold**.

1. Draw the next pattern for each of these (the answers are shown in **bold**):

- a.
- | | | | |
|-----|-------|---------|------------------|
| X X | X X X | X X X X | X X X X X |
| X X | X X X | X X X X | X X X X X |
- b.
- | | | | |
|-------|-----------|---------------|--------------------------|
| X | X | X | X |
| X X X | X X X X X | X X X X X X X | X X X X X X X X X |
| X | X | X | X |
| X | X | X | X |
| X | X | X | X |
- c.
- | | | | |
|-------|---------|-----------|--------------------|
| X | X X | X X X | X X X X |
| X X | X X X | X X X X | X X X X X |
| X X X | X X X X | X X X X X | X X X X X X |

2. Write down the number of crosses in each pattern above and work out the rule for the sequence. (The answer refers to the number of crosses shown in the original worksheet and therefore to the crosses not given in bold above.)

- a. Correct answer: **4, 6, 8; rule: add two.**
- b. Correct answer: **5, 9, 13; rule: add four.**
- c. Correct answer: **6, 9, 12; rule: add three.**

3. The sixth square number is twelve. True or False?

Correct answer: **False. To square a number you multiply the number by itself. $6 \times 6 = 36$.**

4. $8^2 = 64$. True or False?

Correct answer: **True. $8 \times 8 = 64$.**