

In sequence

You may find it useful to explain the rules of a number sequence to someone verbally before writing it down.

1. Give the next four numbers in these sequences. Write the pattern used at the end.

a. 0 5 9 15 18 _____

b. 0 2 8 10 16 _____

c. 3 5.5 8 10.5 13 _____

2. Write in the missing numbers in each of these sequences. Explain the rule that has been used to make the sequence.

a. $\frac{23}{8}$ _____ $\frac{27}{8}$ _____ $\frac{33}{8}$ _____ $\frac{41}{8}$

Rule: _____

b. 0.15 0.8 _____ 2.1 _____ _____ 4.05 _____

Rule: _____

3. This pattern continues in the same way. Answer the questions.



a. Which shape appears in the 28th position? _____

b. How many triangles will there be until you reach the number 40? _____

c. Explain how you found your answers. _____