

Q0.1 Perform the following steps:

Step 1: Start with $x=1$, $y=2$

Step 2: Replace x by x multiplied by y

Step 3: Replace y by $y+1$

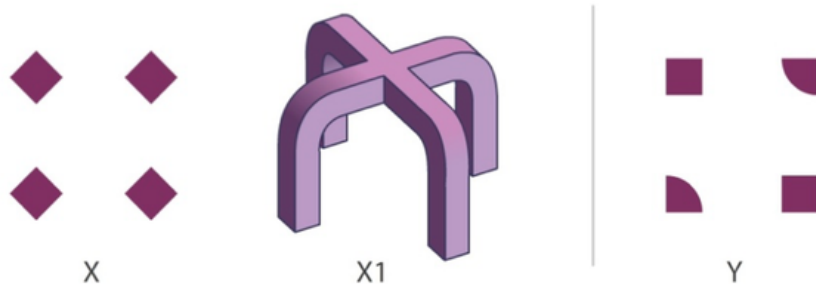
Step 4: If $y=5$, then go to Step 6, otherwise go to Step 5

Step 5: Go to Step 2

Step 6: Stop

What is the value of x ?

Q0.2 X1 is a 3D form generated from the shape X, using certain 3D operations. It has 14 surfaces in total. If the same operations are carried out on shape Y, how many surfaces would the resulting 3D form have?



Q0.3 The word 'Ape' is an anagram of 'Pea'. How many of the following words are anagrams of animals?

Glow, flow, loin, sit, balm, bare, god, lane, act, tab, bit, tar, reef

Q0.4 In photography, f-numbers represent lens aperture. Write the missing f-number in the sequence below.

$f/2.8, f/3.2, f/3.5, f/ _, f/4.5, f/5.0, f/5.6$

Q0.5 Two views of the same solid object are shown below. Count the number of surfaces the solid object has.

