perimeter of the building.

Q. No. 7

a. Average of 7-consecutive numbers is 20. Find the largest of these numbers.

b. A told B that C is his father's nephew. D is A's cousin but not the brother of C. What relationship is there between D and C?

c. Find the next number in the sequence: 7, 12, 19, 28, 39, ____.

d. Sum of money is to be distributed among A, B, C, and D in the ratio of 5:2:4:3. If C gets Rs. 1000 more than D, what is B's share?

Q. No. 8

a. Ali is standing 10 meters away from a tree. The distance of his

Q7 (a)

Solution:-

$$x + (x+1) + (x+2) + (x+3) + (x+4) + (x+5) + (x+6) = 20$$

$$7x + 21 = 20 \longrightarrow 7x = 20 - 21 = -1$$

$$x = -\frac{1}{7}$$

$$x = 7$$

largest number = $x + 6$

$$7 + 6 = 13 \text{ Ans.}$$

OR

Ar= 7 consecutive no: 20 $\longrightarrow$ Median

$$17, 18, 19, \underline{20}, 21, 22, 23$$

largest number is 23 Ans.

Which one is correct?

Q7 (d)   A, B, C, D
           5 2 4 3

Solution:-

$$So, \quad 4x - 3x = 1000$$

$$x = 1000$$

B's share = $2x$ = $2 \times 1000 = 2000$ Ans.