

## Q.3.

A Mathematics Exhibition is being conducted in your School and one of your friends is making a model of a factor tree. He has some difficulty and asks for your help in completing a quiz for the audience.

Observe the following factor tree and answer the following:

(i) Find the value of z .
(ii) Find the value of $y$.
(iii) Find the value of $x$.

OR
(iv) Find the prime factorization of 13915
Q.4.

Mr. RK Agrawal is owner of a famous amusement park in Delhi. The ticket charge for the park is ₹ 150 for children and ₹ 400 for adult.


Generally, he does not go to park and it is managed by team of staff. One day Mr Agrawal decided to random check the park and went there. When he checked the cash counter, he found that 480 tickets were sold and ₹ 134500 were collected.
(i) Let the number of children visited be x and the number of adults visited be y .

Write the correct system of equations that model the problem.
(ii) How many children visited the park?
(iii) How many adults visited the park?

## OR

(iv) How much amount is collected if 300 children and 350 adults had visited the park?


