Exercise 3.3

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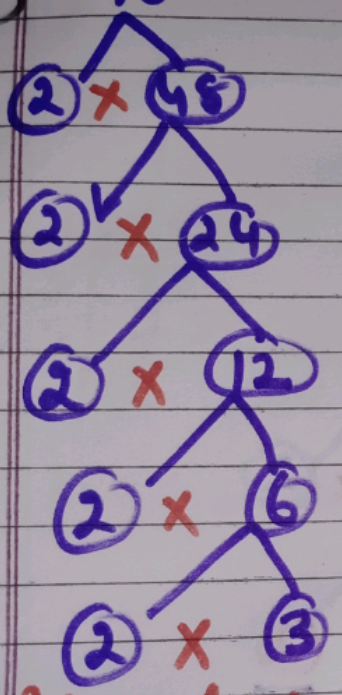
1 Find Prime factors of the following numbers by factor tree method.

ગુણકખંડ રચવાની બીજી રીતનો ઉપયોગ કરી નીચેની સંખ્યાઓના અવિભાજ્ય ગુણકખંડ મેળવો :-

(i) 96 (ii) 120 (iii) 180

(i) 96

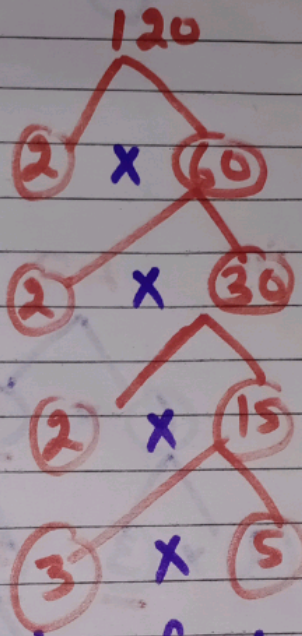


Prime factor of 96 →

2 x 2 x 2 x 2 x 2 x 3

96 નો અવિભાજ્ય ગુણકખંડ

2 x 2 x 2 x 2 x 2 x 3

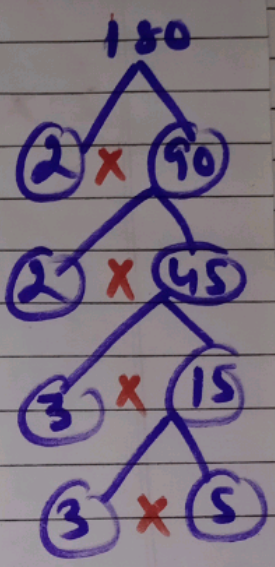


Prime factor of 120 :-

2 x 2 x 2 x 3 x 5

120 નો અવિભાજ્ય ગુણકખંડ →

2 x 2 x 2 x 3 x 5



Prime factor of 180 :-

2 x 2 x 3 x 3 x 5

180 નો અવિભાજ્ય ગુણકખંડ

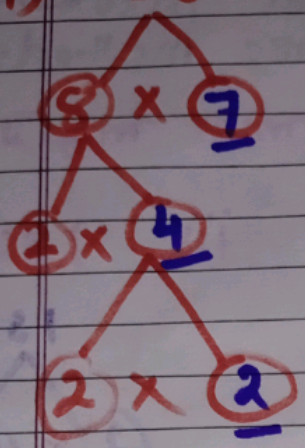
↓

2 x 2 x 3 x 3 x 5

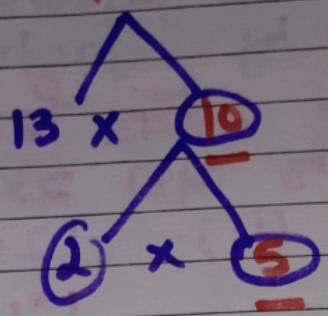
2 Complete each factor tree.

ગુણકખંડ વૃક્ષ પૂરું કરો

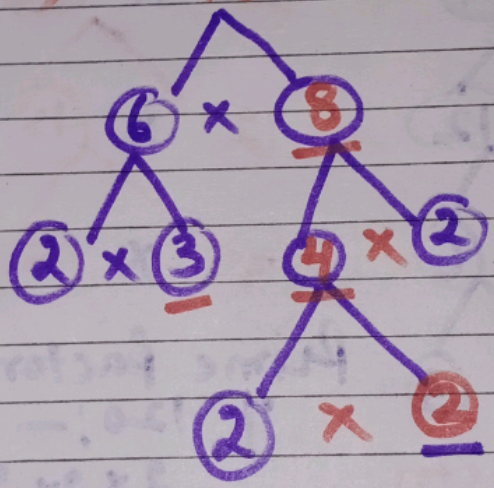
(i) 56



(ii) 130



(iii) 48



3. Find the Prime factors of the following numbers by division method.

उगा दियी गयी संख्या का अभाज्य गुणनखंड ज्ञात कीजिए

(i) 420

2	420
2	210
3	105
5	35
	7

$420 = 2 \times 2 \times 3 \times 5 \times 7$

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ii) 980

2	980
2	490
5	245
7	49
	7

$980 = 2 \times 2 \times 5 \times 7 \times 7$

iii) 225

3	225
3	75
5	25
	5

$225 = 3 \times 3 \times 5 \times 5$

iv) 150

2	150
3	75
5	25
	5

$150 = 2 \times 3 \times 5 \times 5$

v) 324

2	324
2	162
3	81
3	27
3	9
	3

$324 = 2 \times 2 \times 3 \times 3 \times 3 \times 3$