








5







12


$$MP_8 = 13$$

↑ $MP_9 = 11$

$$\text{■ } MP_{12} = 2$$



2

3

4

5

6

7

8

9

10

11

12

0

5

-

-

-

-

12

-

-

-

-

-

-

-

21- - - - -

33



47

63 . - - - - -

102 - - - - -

91



78



110-----

115

117























When worker 7 is hired, Total Product
increase by 15 units: $MP=15$

When worker 8 is hired, Total Product
increase by 13 units: $MP = 13$

Marginal Product for worker 9: $MP = 11$

Marginal Product Decrease:

15, 13, 11, 8, 5, 2















Total Product Increase

78

91

102

110

115

117



14



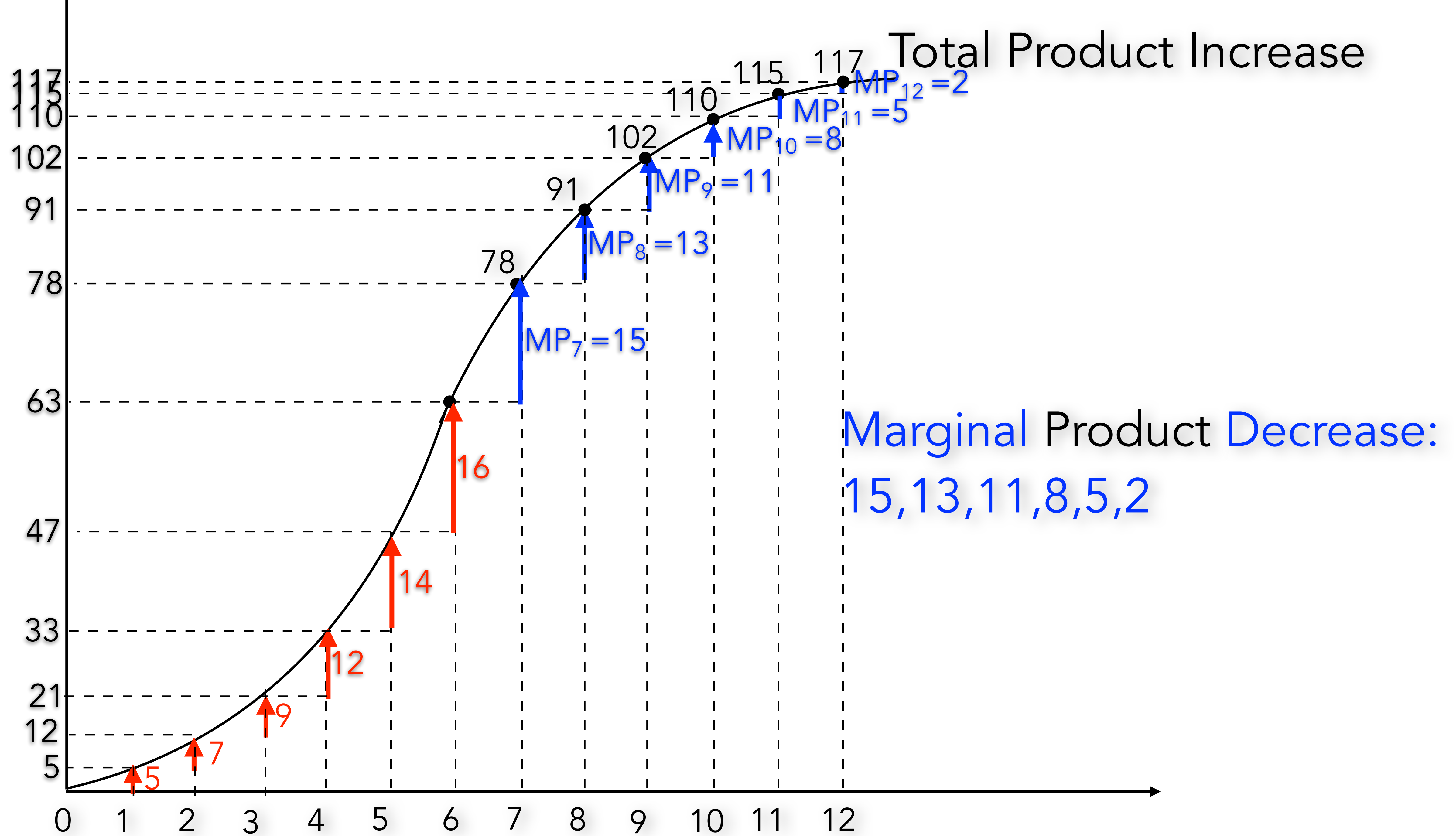
16



$$MP_7 = 15$$


$$\text{MP}_{10} = 8$$

$$|MP_{11}| = 5$$



What happens if we continue to add
workers to a plant of **fixed size**?