



# Workers <b>L</b>	Total Product <b>TP</b>
0	0
1	5
2	12
3	21

# Marginal Product

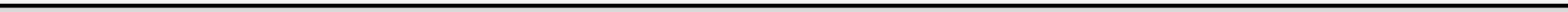
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$$5 - 0 = 5$$

$$12 - 5 = 7$$

$$21 - 12 = 9$$





5









12



2





5



Worker #1



7

Worker #1



6

Worker #2



21



3

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Total Product  
(TP)

**Labor**

}

6



Worker #1



7

Worker #2





7

Worker #3

M

a



9





a













U









M

P



[REDACTED]

[REDACTED]











e

a

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U





U





**b**

S



e



**V**

e





2











mm

e

2

W















S



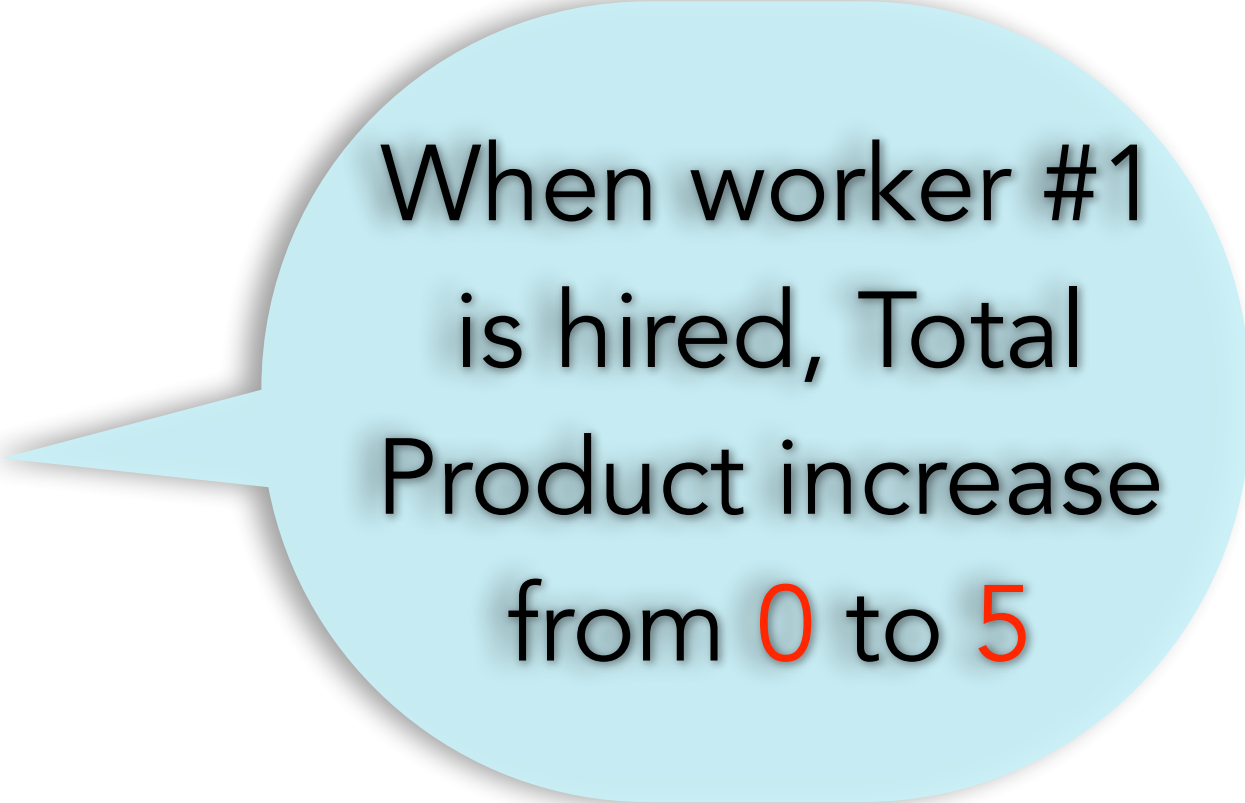












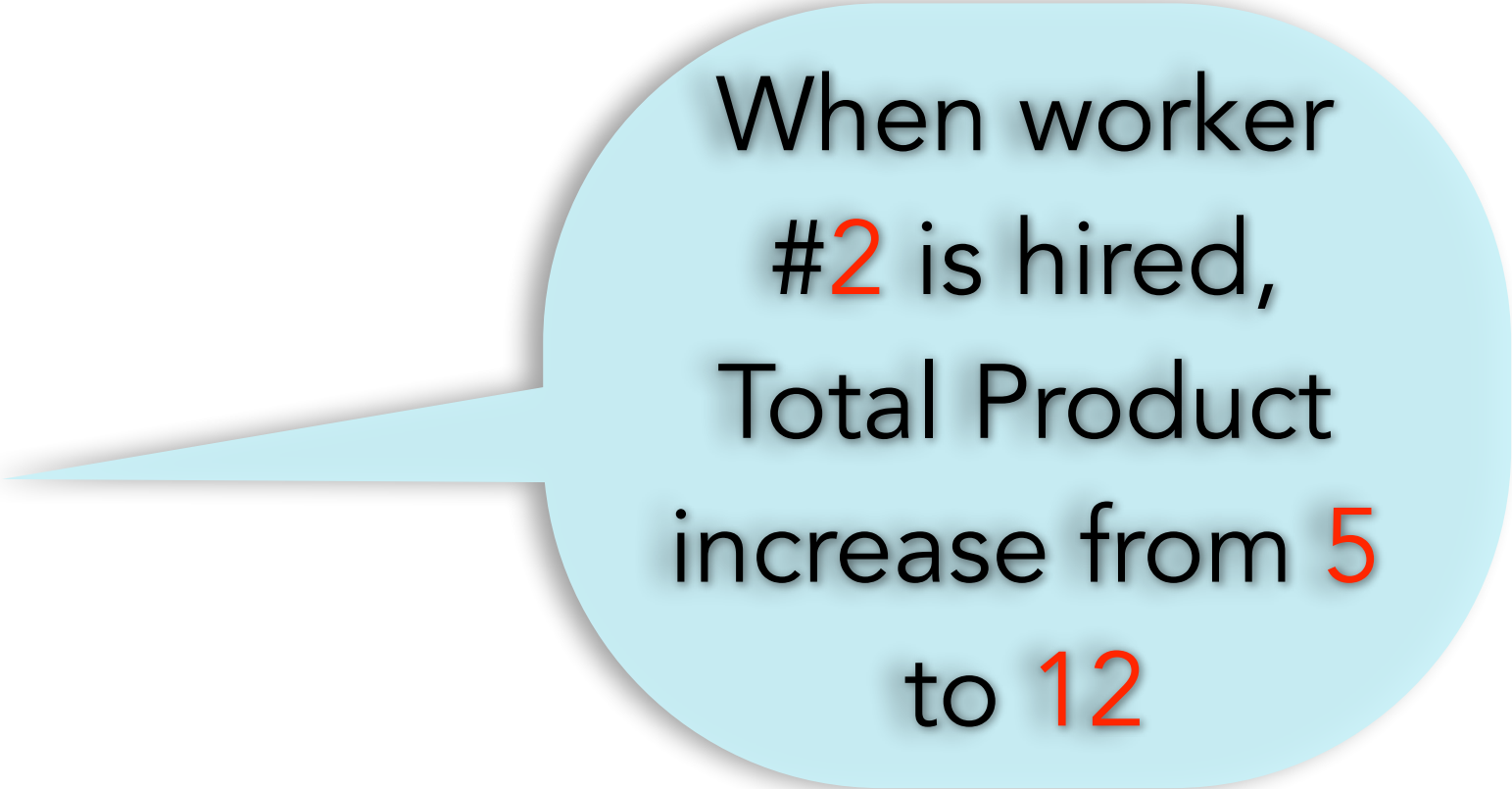
When worker #1  
is hired, Total  
Product increase  
from 0 to 5

MP for worker #1 = 5 units

$MP=5$



Worker #1



When worker  
#2 is hired,  
Total Product  
increase from 5  
to 12

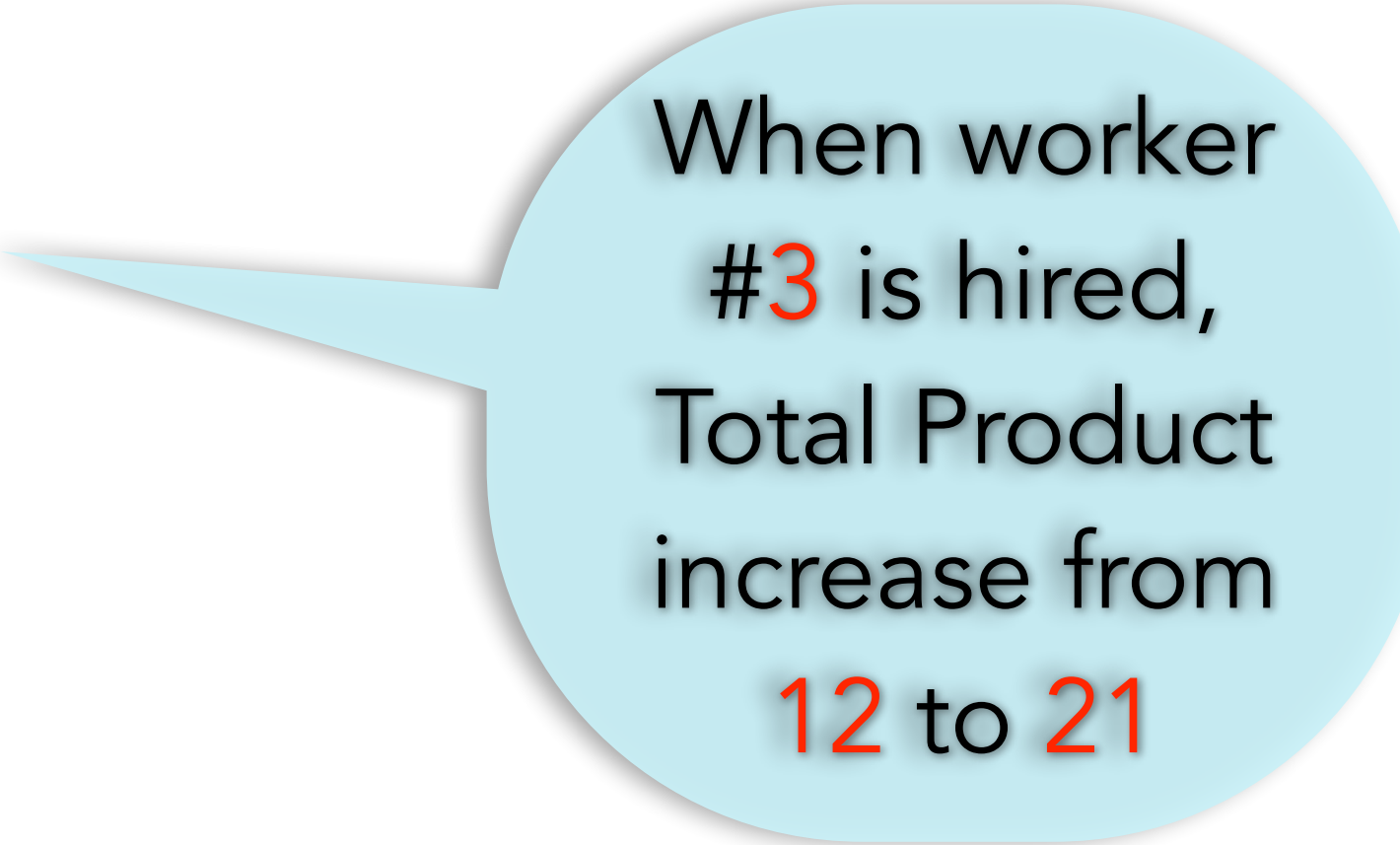
MIP for worker #2 = 7 units



$MP=7$



Worker #2



When worker  
#3 is hired,  
Total Product  
increase from  
12 to 21

MIP for worker #3  $\equiv$  9 units

$MP=9$



Worker #3









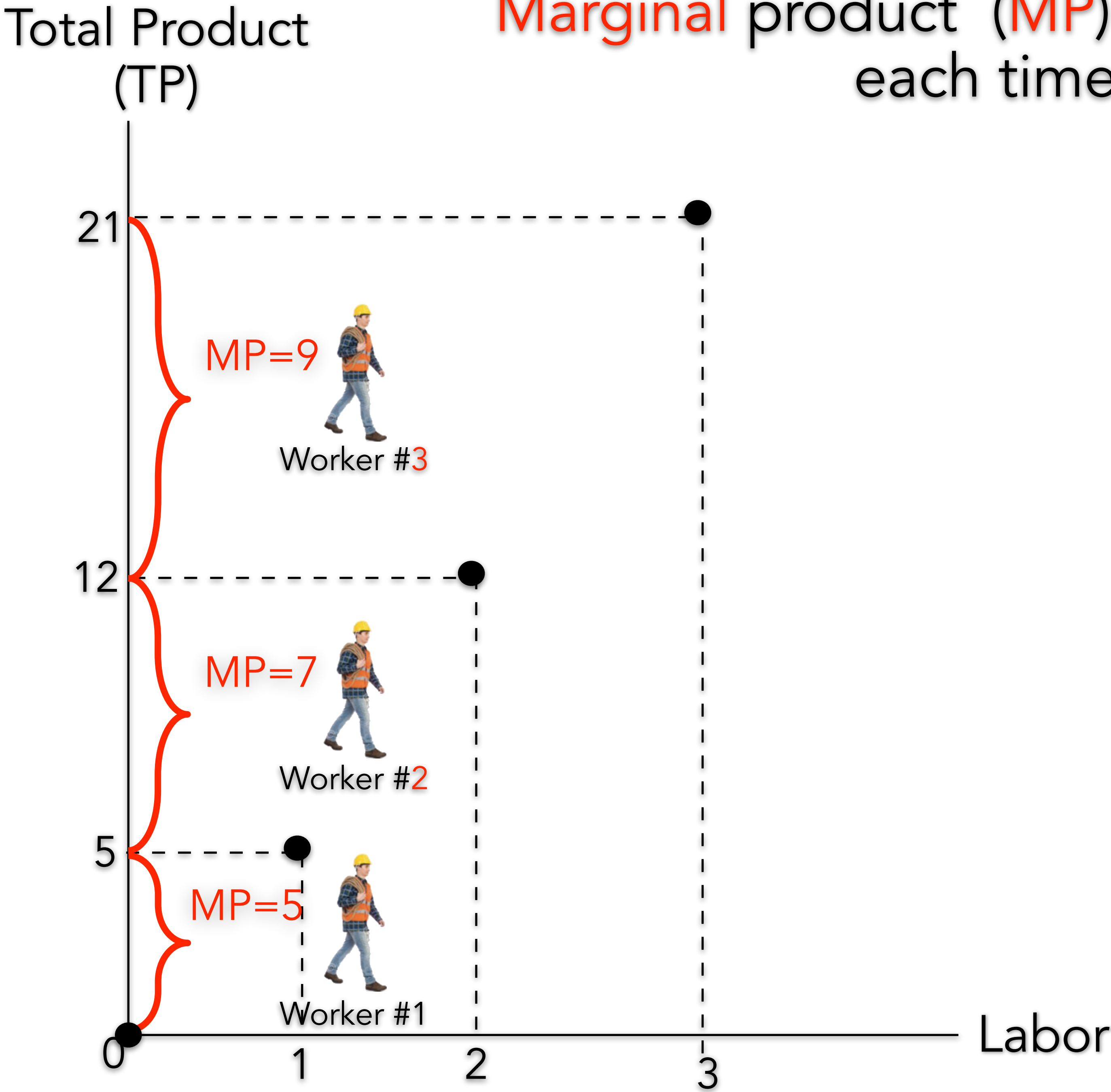


$$\text{Marginal Product} = \frac{\text{Change in TP}}{\text{Change in L}}$$

$$\text{Marginal Product} = \frac{\Delta T P}{\Delta L}$$

Marginal product (MP) = increase in output observed  
each time a worker is hired

Marginal product (MP) = increase in output observed each time a worker is hired



# Workers <b>L</b>	Total Product <b>TP</b>	Marginal Product
0	0	-
1	5	$5 - 0 = 5$
2	12	$12 - 5 = 7$
3	21	$21 - 12 = 9$

Marginal Product =  $\frac{\text{Change in TP}}{\text{Change in L}}$

Marginal Product =  $\frac{\Delta TP}{\Delta L}$

What happens as we hire more workers?