| Labor (L) | MP | TP |
|--------------|----|----|
| 0 | _ | 0 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Using Marginal Product (MP) to calculate Total Product (TP)

Worker 1 produce 5 units: $TP(L=1)=5 MP_1=5$

With worker 2 output increase by 7 units: TP(L=2) = 5 (from worker 1) + 7 (from worker 2) = 12









































































$$MP_4 = 12 \text{ units}$$

 $TP (L=4) = 5 (MP_1) + 7 (MP_2) + 9 (MP_{3)} + 12 (MP_4) = 33$



















$$MP_5 = 14 \text{ units}$$

 $TP (L=5) = 5 (MP_1) + 7 (MP_2) + 9 (MP_{3)} + 12 (MP_4) + 14 (MP_5) = 47$

5+7+9+12+14=47































































































5+7+9+12+14+16=63

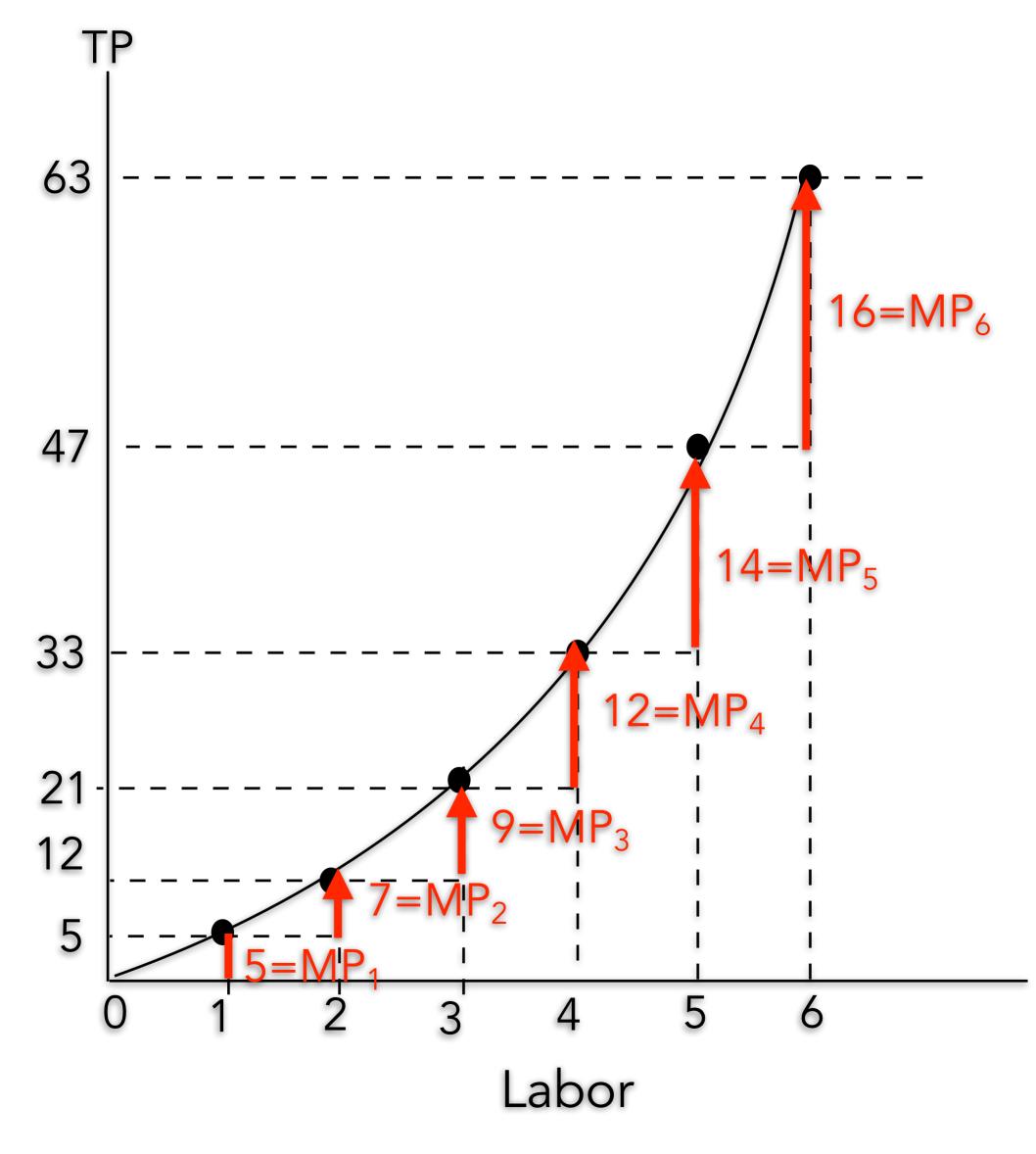






We can write a formula to calculate the TP for n workers as the sum of the MP of these n workers:

 $TP (L=n) = MP_1 + MP_2 + MP_3 + MP_4 + MP_5 + ... + MP_n$



 $MP_3 = 9$ units. $TP (L=3) = 5 (MP_1) + 7 (MP_2) + 9 (MP_{3)} = 21$

~ -

$$MP_6 = 16 \text{ units}$$

 $TP (L=6) = (MP_1=5 + MP_2=7 + 9 (MP_3) + 12 (MP_4) + 14 (MP_5) + 16 (MP_6) = 63$

Using Marginal Product (MP) to calculate Total Product (TP)

We can write a formula to calculate the TP for n workers as the sum of the MP of these n workers:

$$TP (L=n) = MP_1 + MP_2 + MP_3 + MP_4 + MP_5 + ... + MP_n$$

| Labor (L) | MP | TP |
|--------------|----|-------------------|
| 0 | _ | 0 |
| 1 | 5 | 5 |
| 2 | 7 | 5+7 =12 |
| 3 | 9 | 5+7+9 =21 |
| 4 | 12 | 5+7+9+12=33 |
| 5 | 14 | 5+7+9+12+14=47 |
| 6 | 16 | 5+7+9+12+14+16=63 |

