```
Marginal Product
  50/10
            = 5
            = 7
  70/10
            = 9
  90/10
 120/10
            = 12
 140/10
            = 14
 160/10
            = 16
 150/10
            = 15
 130/10
            = 13
 110/10
            = 11
  80/10
            = 8
  50/10
            = 5
  20/10
            = 2
 - 20/10
 <u>- 50/10</u>
            = -5
 - 80/10
            = -8
- 110/10
            = -11
- 130/10
            = -13
```

TP	Change in TP	Change in L	
0			
50	50-0=50	10-0=10	
120	120-50=70	20-10=10	
210	210-120=90	30-20=10	
330	330-210=120	40-30=10	
470	470-330=140	50-40=10	
630	630-470=160	60-50=10	
780	780-630=150	70-60=10	
910	910-780=130	80-70=10	
1,020	1020-910=110	90-80=10	
1,100	1100-1020=80	100-90=10	
1,150	1150-1100=50	110-100=10	
1,170	1170-1150=20	120-110=10	
1,150	1150-1170=-20	130-120=10	
1,100	1100-1150=-50	140-130=10	
1,020	1020-1100=-80	150-140=10	
910	910-1020=-110	160-150=10	
780	780-910=-130	170-160=10	

Labor
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170

Leave Blank!





ΔTP $MP = \frac{\lambda}{2}$ Λ L



Labor increases in groups of 10 workers $\Delta L = 10$

Hiring these 10 workers (from 50 to 60) increase TP by 160 units

The MP of each one of these 10 workers is 16 units

Use formula

to calculate MP

The MP of each one of these 10 workers is 8 units

The MP of each one of these 10 workers is -5 units

Labor increases in groups of 10 workers $\Delta L = 10$

Hiring these 10 workers (from 50 to 60) increase TP by 160 units

	Labor TP		Change in TP	Change in L	Marginal Product	
	0	0	ΔΤΡ	ΔL Leave Blank!		
	10	50	50-0=50	10-0=10	50/10 = 5	
	20	120	120-50=70	20-10=10	70/10 = 7	
	30	210	210-120=90	30-20=10	90/10 = 9	
	40	330	330-210=120	40-30=10	120/10 = 12	
	50	470 🥆	470-330=140	50-40=10	140/10 = 14	
	60	630 🗸	630-470=160	60-50=10	160/10 = 16	
Ì	70	780	780-630=150	70-60=10	150/10 = 15	
	80	910	910-780=130	80-70=10	130/10 = 13	
	90	1,020	1020-910=110	90-80=10	110/10 = 11	
	100	1,100	1100-1020=80	100-90=10	80/10 = 8	
	110	1,150	1150-1100=50	110-100=10	50/10 = 5	
	120	1,170	1170-1150=20	120-110=10	20/10 = 2	
	130	1,150	1150-1170=-20	130-120=10	- 20/10 = - 2	
	140	1,100	1100-1150=-50	140-130=10	- 50/10 = - 5	
	150	1,020	1020-1100=-80	150-140=10	- 80/10 = -8	
	160	910	910-1020=-110	160-150=10	- 110/10 = -11	
	170	780	780-910=-130	170-160=10	- 130/10 = -13	

$$\frac{\Delta TP}{\Delta I}$$

Use formula to calculate MP

The MP of each one of these 10 workers is 16 units

The MP of each one of these 10 workers is 8 units

The MP of each one of these 10 workers is -5 units

Measures of Labor Productivity