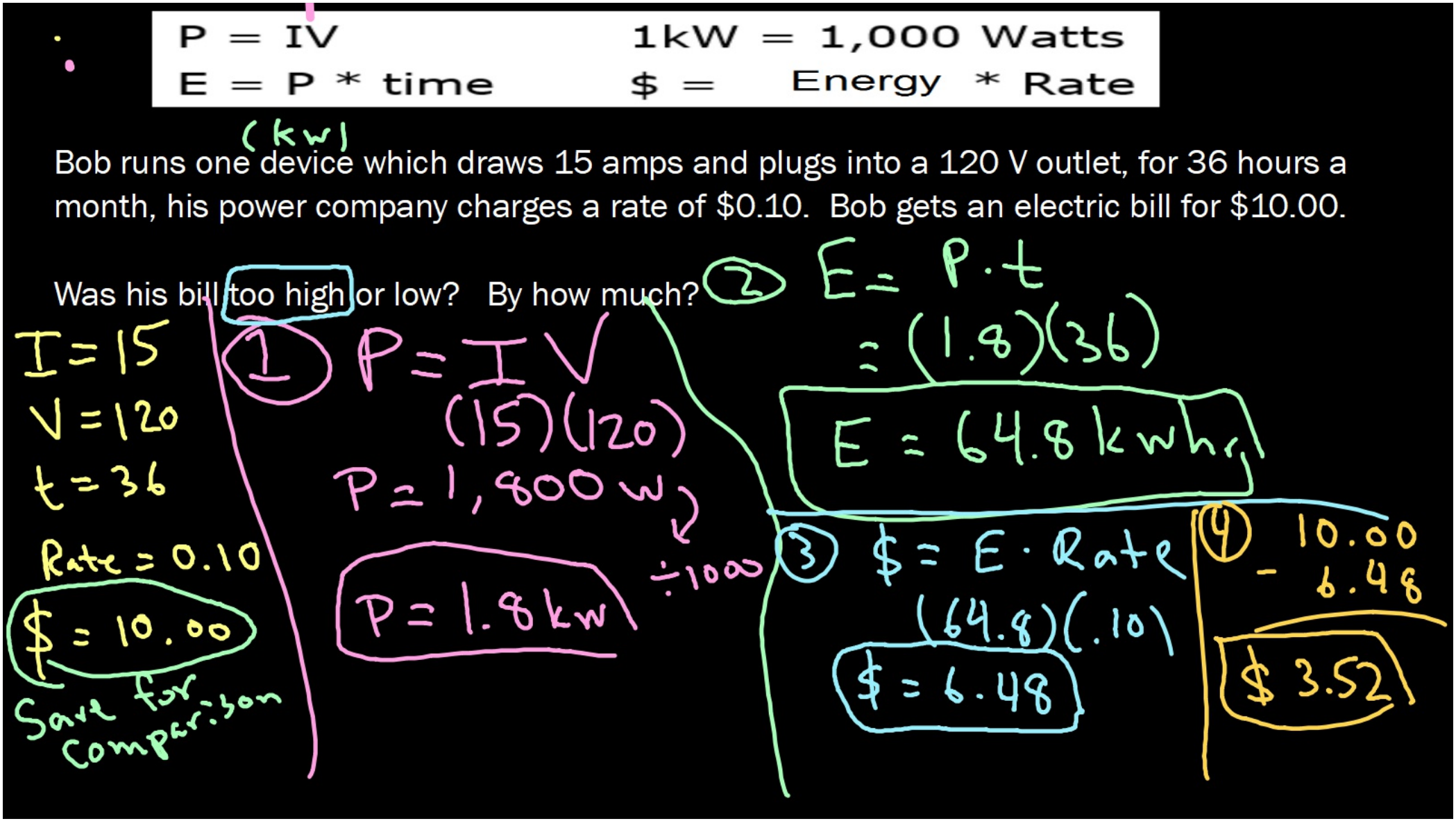
P = IV
E = P * time
(kw)
1kW = 1,000 Watts
$ = Energy * Rate
Bob runs one device which draws 15 amps and plugs into a 120 V outlet, for 36 hours a month, his power company charges a rate of $0.10. Bob gets an electric bill for $10.00.
Was his bill too high or low? By how much?
I = 15
V = 120
t = 36
Rate = 0.10
$ = 10.00
Save for Comparison
1 P = IV
(15)(120)
P = 1,800 w
÷1000
P = 1.8 kw
2 E = P·t
= (1.8)(36)
E = 64.8 kwhr
3 $ = E · Rate
(64.8)(.10)
$ = 6.48
4 10.00
- 6.48
$ 3.52