

## 35AT & SURSET SUM: Variables: X,, \_\_, Xn Clauses: C,,...,Cg (1) Convert each variable to a pair of numbers. $\chi_1 \longmapsto w_1 = 1$ , $w_2 = 2$ $\chi_2 \longmapsto w_3 = 4$ , $w_4 = 8$ $\chi_3 \longmapsto w_5 = 16$ , $w_6 = 32$ This is not good chough: nothing to prevent us from choosing both which corresponds $x_1 = F$ . X, H) 101-101 000 7 × 110 000 TT 111 W III III W