

# LINDO

Solving the last problem in LINDO returns the following (Choose “yes” when LINDO asks you if you want to do sensitivity analysis):

```
min 50x1+100x2
st
(HIW) 7x1+2x2>=28
(HIM) 2x1+12x2>=24
```

*NOTE:* We can label our constraints to make LINDO’s output a little more readable. In this case, the output was:

LP OPTIMUM FOUND AT STEP 2

## OBJECTIVE FUNCTION VALUE

1) 320.0000

VARIABLE	VALUE	REDUCED COST
X1	3.600000	0.000000
X2	1.400000	0.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
(HIW)	0.000000	-5.000000
(HIM)	0.000000	-7.500000

NO. ITERATIONS= 2

## RANGES IN WHICH THE BASIS IS UNCHANGED:

VARIABLE	CURRENT COEF	OBJ COEFFICIENT RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
X1	50.000000	300.000000	33.333332
X2	100.000000	200.000000	85.714287

ROW	CURRENT RHS	RIGHTHAND SIDE RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
(HIW)	28.000000	56.000000	23.999998
(HIM)	24.000000	144.000000	16.000000