



INDIAN SCHOOL NIZWA - WORKSHEET

SUBJECT: MATHEMATICS CH-12 LINEAR PROGRAMMING

Name: _____ Date: _____ Class: _____ Sec: _____

1. Maximise $Z = 1000x + 600y$

subject to $x + y \leq 200$, $x \geq 20$, $y - 4x \geq 0$, and $x, y \geq 0$.

2. Maximise $Z = 4x + y$

Subject to $x + y \leq 50$, $3x + y \leq 90$, $x \geq 10$, x and $y \geq 0$.

3. Minimise $Z = 3x + 5y$

Subject to $x + 2y \geq 10$, $x + y \geq 6$, $3x + y \geq 8$ and $x, y \geq 0$.

4. Minimise $Z = 13x - 15y$

Subject to $x + y \leq 7$, $2x - 3y + 6 \geq 0$, x and $y \geq 0$.