

1) Servidores A = x e Servidores B = y

$$500x + 800y \geq 10000$$

$$100x + 150y \leq 3000$$

$$10x + 15y \leq 200$$

2)

$$10P1 + 15P2 + 8P3 \leq 60$$

$$P1 \leq 40$$

$$P2 \leq 30$$

3)

$$2A + 1.5B + 1C \leq 100$$

$$A \geq 20$$

$$B + C \leq 50$$

$$A^2 \leq B + C$$

4) A

$$5X + 3Y + 6Z \leq 120$$

$$2X + 3Y + Z \leq 60$$

$$X \geq 5$$

$$Y \geq 3$$

$$Z \leq X + Y$$

5) A

6) A

$$0.05X + 0.1Y \geq 500$$

$$X \geq 150$$

$$Y \geq 100$$

$$100X + 200Y \geq 80000$$

7) A

$$2X + 3Y \leq 30$$

$$4X + 2Y \leq 40$$

$$500X + 700Y \leq 5000$$

$$10X + 15Y \geq 100$$

8) A

$$0.5G + 0.3F + 1L \leq 1000$$

$$0.1G + 0.05F + 0.2L \geq 50$$

$$0.1G \geq 0.05F^2$$

$$0.2L \leq 500$$

9) A

$$10M + 8C \geq 100$$

$$32M + 16C \geq 400$$

$$4M + 8C \geq 200$$

10) A

$$0.01L + 0.05N \leq 200$$

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