

② Corn Chip Problem

Let $x = \# \text{ KB X-large}$
 $y = \# \text{ KB Really Small}$

(i) $x \leq 20$
 $y \leq 30$

(ii) $x + y \leq 45 \rightarrow (0, 45) (45, 0)$

(iii) $x \geq \frac{3}{4}y \rightarrow (15, 20) (30, 40)$

(iv) $10x + 15y \geq 150 \rightarrow (0, 10) (0, 15)$

(c) $200x + 150y \geq 6000$

$\hookrightarrow 4x + 3y \geq 120$

\hookrightarrow intercepts $(0, 40) (30, 0)$

(d) $A(20, 13\frac{1}{3})$ $B(15, 20)$ $C(\frac{135}{7}, \frac{180}{7})$ $D(20, 25)$

	vertices	Profits $200x + 150y = P$
Test: C	$(\frac{135}{7}, \frac{180}{7})$	$7711\frac{3}{7}$
D	$(20, 25)$	7750

Answers

20 Kitobags X-large
 25 KB Real Small
 \$ 7750

y (#KB Really Small)

