3.(A) $P_x X + P_y Y = M$ ⇒ $10X + 10Y = 50$

(B) $M > 1$ ⇒ $A$

(C) $P_x(1+t)X + P_y Y = M$ ⇒ $P(1.1)X + 10Y = 500$

(D) $P_x(1.2)X + P_y Y = M$ ⇒ $10X + 10Y = 500$

(E) $P_x X + P_y Y = M$ ⇒ $12X + 10Y = 500 - 100$

(F) $(P_x - 5) X + P_y Y = M$ ⇒ $0 + 10Y = 500$

(G) $P(1+t)X + P_y Y = M$ ⇒ $2(30)7$ $12X + 10Y = 500 + 5$

4.(A) $P_x X + P_y Y = 6400$ $60X + 20Y = 6400 - 200$

(B) $P_x Y = 6200$ ⇒ $5$

$10X + 200 X (1+5+z)20$ ⇒ $5 \times z$

(C) $80X + 200 X 960$ ⇒ $5 \times z$ 0.40

$80(X-55) + 200 X + 960 - X m = 5552$ ⇒ $Xm = 2402$

$960X + 200 + 80(X-55), 800X$ ⇒ $5552$

$80(X-55) + 200 = X m = 2400$