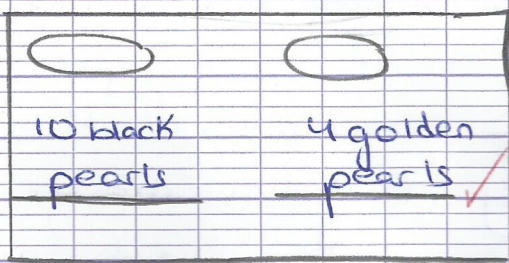
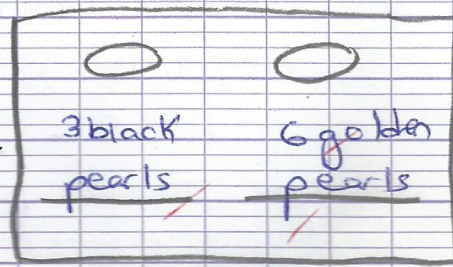


27 a



Bag B₁ 24,000 L.P.



Bag B₂ 24,000 L.P.

b. Let the unit price of the black pearls be b
 & that of golden pearls be g .

Bag B₁: $(10b + 4g = 24,000 \text{ L.P.}) \div 2$
 $5b + 2g = 12,000$

Bag B₂: $3b + 6g = 24,000 \text{ L.P.}$

$$\begin{cases} 5b + 2g = 12,000 \\ 3b + 6g = 24,000 \end{cases}$$

Systems I & II are equivalent.

So, $b = r = 1,000$

& $g = y = 3,500$

Thus price of one black pearl is 1,000 L.P.
 & that of one golden pearl is 3,500 L.P.

3. Let the nb of black pearls be z & that

Statements - of golden pearls be w

Bag contains $\left\{ \begin{array}{l} z + w = 12 \\ (1000z + 3500w = 24,500) \times \frac{1}{500} \end{array} \right.$

So, $z + w = 12$

statement 2: $2z + 7w = 49$

unit price of
 black pearl is 1,000 L.P.
 & that of golden pearl is 3,500 L.P.

Q