

Exercices:

①

1)  $4s \rightarrow 1c = 5Mo$

a)  $1a?$

$1a = 15c$

$$\begin{array}{ccc} & \xrightarrow{\times 4} & \\ 4s & \rightarrow & 1c \end{array}$$

$xs \rightarrow 15c$

$x = 15 \times 4 = 10 \times 4 + 5 \times 4 = 50 + 20 = 70s \text{ soit } \underline{1min10s}$

b)  $1min?$

$1min = 60s$

$$\begin{array}{ccc} & \xrightarrow{\times 1,25} & \\ 4s & \rightarrow & 5Mo \end{array}$$

$60s \rightarrow yMo$

$y = 60 \times 1,25 = \underline{75Mo}$

$$\begin{array}{r} 5 \ 4 \\ 10 \overline{) 1,25} \\ - 2 \phantom{0} \\ \hline 20 \phantom{0} \end{array}$$

$$\begin{array}{r} 60 \\ \times 1,25 \\ \hline 300 \\ 1200 \\ 6000 \\ \hline 75,00 \end{array}$$

2)  $1v \rightarrow 500Mo \rightarrow 20s$

a)  $1a?$

$1a = 80Mo$

$$\begin{array}{ccc} & \xrightarrow{:25} & \\ 500Mo & \rightarrow & 20s \end{array}$$

$80Mo \rightarrow 13s$

$13 = 80 : 25 = \underline{3,2s}$

Il va mettre 3,2 secondes à télécharger l'album.

b)  $1min?$

$1min = 60s$

$$\begin{array}{ccc} \times 3 / & 20s & \rightarrow 500Mo \\ & 60s & \rightarrow xMo \end{array} \quad \times 3$$

$x = 500 \times 3 = \underline{1500Mo}$

$$\begin{array}{r} 1500 \\ 500 \overline{) 1500} \\ \hline 3 \end{array}$$

3)  $mD = 1000\%$  de  $aD?$

$aD = 75Mo/min$

2)  $MD = 1900\%$  de  $AD$ .

$AD = 75 \text{ Mo/min}$

$\times 19 \left\{ \begin{array}{l} 75 \text{ Mo/min} \rightarrow 100\% \\ y \text{ Mo/min} \rightarrow 1900\% \end{array} \right. \downarrow \times 19$

$\times 20 \left\{ \begin{array}{l} 75 \text{ Mo/min} \rightarrow 100\% \\ 1500 \text{ Mo/min} \rightarrow 13\% \end{array} \right. \downarrow \times 20$   
 $13 = 100 \times 20 = 2000\%$

$y = 19 \times 75 = 10 \times 75 + 9 \times 75 = 750 + 9 \times 70 + 9 \times 5 = 750 + 630 + 45 = 1370 + 45 = \frac{1400}{1370 + 30 + 15} = 1415$

DP a augmenté d'un peu plus que 1900% (2000% exactement)

②  $6p \rightarrow 635 \text{ g/l}$

$2p \text{ en } + = 8p$

$15g \rightarrow ? \text{ g}$

$630 \times 15 = 8250$

il faut 8250 g de quinine pour 15 jours

$\times 1,33 \left\{ \begin{array}{l} 6p \rightarrow 635 \text{ g/l} \\ 8p \rightarrow x \text{ g/l} \end{array} \right. \downarrow \times 1,33$

$\begin{array}{r} 8 \\ 20 \overline{) 16} \\ 2 \end{array}$

$x = 635 \times 1,333 = 846,45 \text{ g/l}$

$846,45 \text{ g} \rightarrow 1 \text{ g}$   
 $y \text{ g} \rightarrow 15g \downarrow \times 15$

$y = 846,45 \times 15 = 12697,75 \text{ g}$  soit 12,7 kg environ

③  $5p \rightarrow 1200 \text{ g}$

$8p \rightarrow 2k \rightarrow 2000 \text{ g}$

$11p?$

$\xrightarrow{\times 240}$   
 $5p \rightarrow 1200 \text{ g}$   
 $8p \rightarrow 2000 \text{ g}$   
 $\xrightarrow{\times 250}$

$\begin{array}{r} 1200 \\ 20 \overline{) 480} \\ 00 \end{array}$

$\begin{array}{r} 2000 \\ 40 \overline{) 800} \\ 00 \end{array}$

Non proportionnelle, donc on peut pas savoir

④  $3 \text{ m}^3 \rightarrow 2,7 \text{ Ts} \rightarrow 0,9 \text{ Tc} \rightarrow 3,3 \text{ Tg}$

$10 \text{ m}^3?$

$\times 3,3 \left\{ \begin{array}{l} 3 \text{ m}^3 \rightarrow 2,7 \text{ Ts} \rightarrow 0,9 \text{ Tc} \rightarrow 3,3 \text{ Tg} \\ 10 \text{ m}^3 \rightarrow x \text{ Ts} \rightarrow y \text{ Tc} \rightarrow 33 \text{ Tg} \end{array} \right.$   
 $8,91 \text{ Ts} \quad 2,97 \text{ Tc} \quad 10,89 \text{ Tg}$

$\begin{array}{r} 2,7 \\ \times 3,3 \\ \hline 81 \\ 810 \\ \hline 8,91 \end{array}$

$\begin{array}{r} 0,9 \\ \times 3,3 \\ \hline 27 \\ 270 \\ \hline 2,97 \end{array}$

$\begin{array}{r} 3,3 \\ \times 3,3 \\ \hline 99 \\ 990 \\ \hline 10,89 \end{array}$

$$\begin{array}{ccccccc}
 10m^2 & \rightarrow & x & Ts & \rightarrow & y & Tc & \rightarrow & B & Tg \\
 & & \underline{8,91Ts} & & & \underline{2,97Tc} & & & \underline{10,89Tg}
 \end{array}$$

$$\overline{8,91}$$

$$2,97$$

$$\overline{10,89}$$