

$$2,6 \text{ g} \rightarrow \text{kg}$$

$$\frac{2,6}{10^3} = 0,0026 \text{ kg}$$

03 a) $8,132 \text{ km}^3 \rightarrow \text{hm}^3$

$$8,132 \cdot 10^3 = 8132 \text{ hm}^3$$

b) $180 \text{ hm}^3 \rightarrow \text{km}^3$

$$\frac{180}{10^3} = 0,18 \text{ km}^3$$

c) $5 \text{ cm}^3 \rightarrow \text{m}^3$

$$\frac{5}{10^6} = 0,000005 \text{ m}^3$$

d) $48,5 \text{ m}^3 \rightarrow \text{km}^3$

$$\frac{48,5}{10^9} = 48,5 \cdot 10^{-9} \text{ km}^3$$

e) $12 \cdot \text{m}^3 \rightarrow \text{cm}^3$

$$12 \cdot 10^6 = 12000000 \text{ cm}^3$$

f) $139 \text{ mm}^3 \rightarrow \text{m}^3$

$$\frac{139}{10^9} = 138 \cdot 10^{-8} \text{ m}^3$$

04 a) $6 \text{ m}^2 \rightarrow \text{dm}^2$

$$6 \cdot 100 = 600 \text{ dm}^2$$

b) $50 \text{ cm}^2 \rightarrow \text{m} \cdot \text{m}^2$

$$50 \cdot 100 = 5000 \text{ m} \cdot \text{m}^2$$

c) $3,652 \text{ m}^2 \rightarrow \text{m} \cdot \text{m}^2$

$$3,652 \cdot 10^6 = 3652000 \text{ m} \cdot \text{m}^2$$

d) $0,95 \text{ dm}^2 \rightarrow \text{m} \cdot \text{m}^2$

$$0,95 \cdot 10^4 = 9500 \text{ m} \cdot \text{m}^2$$

e) $500 \text{ dm}^2 \rightarrow \text{m}^2$

$$\frac{500}{100} = 0,5 \text{ m}^2$$

$$\begin{array}{ccccccc} \text{km}^3 & \text{hm}^3 & \text{dam}^3 & \text{m}^3 & \text{dm}^3 & \text{cm}^3 & \text{mm}^3 \\ & \longleftarrow & & & \longrightarrow & & \\ & \div & & & \times & & \\ & 1000 & & & 1000 & & \\ & 10^3 & & & 10^3 & & \end{array}$$

$$\begin{array}{ccccccc} \text{km}^2 & \text{ham}^2 & \text{dam}^2 & \text{m}^2 & \text{dm}^2 & \text{cm}^2 & \text{mm}^2 \\ & \longleftarrow & & & \longrightarrow & & \\ & \div & & & \times & & \\ & 100 & & & 100 & & \end{array}$$

05. $4 \text{ m}^3 \rightarrow \text{cm}^3$ $\text{cm}^3 \rightarrow \text{ml}$

$4 \cdot 10^6 = 4000000 \text{ ml}$

$4000 \text{ caixas} \rightarrow 4000000$

$1 \rightarrow x$

$x = \frac{4000000}{4000} = 1000 \text{ ml}$

E

06. $\frac{100}{1000000} = 100 \cdot 10^{-6} = 1 \cdot 10^{-4}$

C

07. $1 \text{ PE} \rightarrow 12 \text{ POLEGADAS}$

$443 \text{ PE} \rightarrow 5316 \text{ POLEGADAS}$

$1 \text{ POLEGADA} \rightarrow 2,54 \text{ cm}$

$5316 \rightarrow 13502,64 \text{ cm}$

$13502,64 \text{ cm} \approx 135 \text{ m}$

D

08.
$$\begin{array}{r} 3,10 \\ - 3 \\ \hline 0,10 \text{ mm} \end{array}$$

$$\begin{array}{r} 3,021 \\ - 3 \\ \hline 0,021 \text{ m} \end{array}$$

$$\begin{array}{r} 2,9 \\ 3 \Delta b \\ - 2,96 \\ \hline 0,04 \text{ mm} \end{array}$$

$$\begin{array}{r} 2 \\ 3 \text{ } 9 \text{ } 9 \text{ } b \\ - 2,099 \\ \hline 0,901 \text{ mm} \end{array}$$

$$\begin{array}{r} 3,07 \\ - 3 \\ \hline 0,07 \text{ mm} \end{array}$$

C

09. $V = \frac{\Delta S}{\Delta t}$

$$V = \frac{2,1 \text{ km}}{\frac{84 \text{ h}}{3600}}$$

$$V = 2,1 \cdot \frac{3600}{84}$$

$$V = \frac{7560}{84}$$

$1 \text{ hora} \rightarrow 60 \text{ minutos}$

$1 \text{ minute} \rightarrow 60 \text{ s}$

$60 \text{ min} \rightarrow 3600 \text{ s}$

$1 \text{ hora} \rightarrow 3600 \text{ s}$

$1 \text{ min} + 24 \text{ segundos} =$

$= 60 + 24 = 84 \text{ segundos}$

$1 \text{ hora} \rightarrow 3600 \text{ s}$

$x \rightarrow 84 \text{ s}$

$$x = \frac{84 \text{ h}}{3600}$$

$$v = 90 \text{ km/h}$$

10. $20000 \text{ l} \quad \text{l} \rightarrow \text{dm}^3$

$$20000 \text{ dm}^3 \rightarrow 20 \text{ m}^3$$

$$25000 \text{ dm}^3 \rightarrow 25 \text{ m}^3$$

$$20 + 25 = 45 \text{ m}^3$$

$$45 - 30 = 15 \text{ m}^3$$

A

11. $30 \text{ minutos} \rightarrow \frac{1 \text{ hora}}{2}$

$$24 \text{ horas} \rightarrow 48 \text{ intervalos}$$

de 30 min

$$1 \text{ intervalo de 30 min} \rightarrow 400 \text{ ml}$$

$$48 \rightarrow x$$

$$x = 19200 \text{ ml} \rightarrow 19,2 \text{ l}$$

B

12. $\text{cálcorio} \rightarrow 180 \text{ g por m}^2$

$$\text{NPK} \rightarrow 130 \text{ g por } 10 \text{ m}^2$$

$$+ 30 \text{ g a cada mudo}$$

$$180 \cdot 4000 \text{ m}^2 = 720000 \text{ g} = 720 \text{ kg de cálcorio}$$

$$\frac{130 \cdot 4000}{10} = 62000 = 52 \text{ kg de NPK}$$

$$\frac{30 \cdot 13000 \cdot 2}{5} = 156 \text{ kg}$$

$$156 + 56 = 208 \text{ kg} \rightarrow 210 \text{ (arredondado de } 10 \text{ kg)}$$

$$10 \text{ kg} \rightarrow 65 \text{ sacos}$$

$$210 \text{ kg} \rightarrow x$$

$$x = 1365$$

$$1365 + 1080 = 2445$$

B

$$\text{km}^2 \xrightarrow{\cdot 100} \text{ham}^2 \xrightarrow{\cdot 100} \text{dam}^2 \text{ m}^2 \text{ dm}^2 \text{ cm}^2 \text{ mm}^2$$

$$1 \text{ ha} \rightarrow 1 \text{ ham}^2 \rightarrow 10000 \text{ m}^2$$

$$\frac{1}{5} \cdot 10000 = 4000 \text{ m}^2$$

$$720 \text{ kg} \rightarrow x$$

$$10 \text{ kg} \rightarrow 15 \text{ sacos}$$

$$x : 1080$$

13. $40.3 = 120$ minutos

120 L

2 horas + 3 minutos

↳ cliente agor em atendimento

A

14. $1000 \text{ ml} \rightarrow 480 \text{ min}$ $8 \text{ h} \rightarrow 8 \cdot 60 = 480 \text{ min}$

$x \rightarrow 375$

$6 \text{ h } 15 \text{ min} \rightarrow (6 \cdot 60) + 15 = 360 + 15 = 375$

$x = \frac{375 \cdot 1000}{480} = 781,25 \text{ ml}$

E

15. $\frac{x}{y} = \frac{2}{5}$ $2y = 5x$

$x + y = 14 \cdot (2)$

$2x + 2y = 28$

$2x + 5x = 28$

$7x = 28$

$x = 4$

$y = 10$

$10 - 4 = 6 \text{ m}^3 = 6000 \text{ L}$

B