7.34)

$2:3$

$2(9):3(9)$

$18:27$

7.35)

$4:5$

$4(12)=48$

$4n+5n=108$

$9n=108$

$n=12$

7.36)

$1:16$

$20:58$

$10:29$

7.37)

$1n+5n=12$

$n=2$

$5(2)=10$ metros.

7.38)

$4:3$

$3n=87$

$n=29$

$87+4(29)=87+116$

$=203$

7.39)

$3_1: S_n$

$S_n=3n+120$

$2n=120$

$n=60$

$S_n=300$

7.40)

g a

$3n:2n$

$12:8$

$3n+2n=20$

$n=4$

$12+a:8+(20-a)=2:3$

$\frac{12+a}{28-a}=\frac{2}{3}$

$36+3a=56-2a$

$5a=20$

$a=4$

7.41)

$\frac{5}{13}(26.000)=10,000$

7.42)

$6:5=x:25$

$x=30$ metros

7.43)

$0.5:80=\frac{47}{8}:x$

$\frac{1/2}{80}=\frac{47/8}{x}$

$x=\frac{47\cdot 80\cdot 2}{8}$

$x=940$ millas

7.44)

| Fortnight | Days | mile | Furlongs |
|---|---|---|---|
| 1 | 14 | 1 | 8 |

140 millas en un Fortnight. $140(8)=1120$ Furlongs.

7.45)

$1:5=5:x$

$1(5):5(5)=5:25$ inches

7.46)

$\frac{4}{9}$ mm $\times \frac{1\text{cm}}{10\text{mm}} = \frac{2}{45}$ cm

$\frac{2}{45}:1\text{km}=10:x$

$\frac{\frac{2}{45}}{1}=\frac{10}{x}$

$x=\frac{10\cdot 45}{2}=225$ km

7.47)

Distancia total = 360 millas.

Tiempo total $= 120\left(\frac{1}{60}\right) + 120\left(\frac{1}{40}\right) + 120\left(\frac{1}{24}\right) = 120\left(\frac{10}{120}\right) = 10$ horas

$\frac{360 \text{ millas}}{10 \text{ horas}} =$ 36 mph

7.48)

A = 8 : 1

B = 6 : 1

x = galones

$6x = 30\ (8)$

$6x = 240$

$x =$ 40 galones

7.49)

$80_{sg}$ : 1 milla

$\frac{1 \text{ milla}}{80 \text{ sg}} \times \frac{3600 \text{ sg}}{1 \text{ hour}} =$ 45 millas/hora

7.50)

- $\frac{10 \text{ laps}}{25 \text{ min}} = \frac{2 \text{ laps}}{5 \text{ min}} = \frac{1 \text{ lap}}{2.5 \text{ min}}$.
- $\frac{12 \text{ laps}}{24 \text{ min}} = \frac{1 \text{ lap}}{2 \text{ min}}$.

Ha mejorado en $\frac{1}{2}$ minuto o 0.5 minutos.

7.51)

$$\frac{2}{\frac{1}{50} + \frac{1}{40}} = \frac{2}{\frac{4}{200} + \frac{5}{200}} = \frac{2}{\frac{9}{200}} = \frac{200 \cdot 2}{9} = \frac{400}{9} = 44\frac{4}{9} \text{ mph} = 44.\overline{4} \text{ mph}$$

$\approx$ 44.4 mph

7.52)

295 − 25 = 270 millas Faltan.

50 + 40 = 90 mph

$270 \times \frac{1 \text{ horas}}{90 \text{ millas}} = 3$ horas. $3 + 0.5 = 3.5$ horas.

4:30 pm

7.53)

12.5 g : 1 day

$\frac{25}{2}\left(\frac{15}{30}\right)$ : 30

375 g : 30 days

$\frac{125}{10} =$

1000 − 375 = 625 galones.

7.54)

A = 72 min

B = 36 min

C = 12 min

72 + 36 + 12 = 120 minutos.

7.55)

$J = \frac{1}{75 \text{ min}}$ $\quad \frac{1}{75} + ? = \frac{1}{30 \text{ min}}$

$\frac{1}{30} - \frac{1}{75} = \frac{5}{150} - \frac{2}{150} = \frac{3}{150} = \frac{1}{50}$

50 minutos.

7.56)

$$2000 \text{ pounds} \times \frac{1 \text{ dolar}}{0.62 \text{ pounds}} \times \frac{12.1 \text{ pesos}}{1 \text{ dolar}} = \frac{2000 \cdot 121/10}{62/100} \text{ pesos} = \frac{\overset{1000}{\cancel{2000}} \cdot 121 \cdot \cancel{100}}{\underset{31}{\cancel{62} \cdot \cancel{1}}}$$

$$= \frac{1210000}{31} = 3\frac{28}{31} \cdot 10000$$

$$\approx [3,903225\ldots] \cdot 10000$$

$$\approx 39032,25\ldots$$

$$\approx \text{39032 pesos.}$$

0.90322580..
280 | 31
279
100
93
70
62
80
62
180
155
250

7.57)

| Cooks | omelets | minutes |
|---|---|---|
| 4 | 24 | 10 |

4 cooks hacen 36 omelets en 15 minutos.

1 cook hace 9 omelets en 15 minutos.

Para hacer 90 en 15 minutos se necesitan 10 cooks.