Los porcentajes se usan constantemente en el mundo real.

Problemas (Individual)

8.8)

$7\% (800) = 7 \cdot 8 = \boxed{56}$

8.9)

$\dfrac{6}{15} = \dfrac{2}{5}$. $\boxed{40\%}$

8.10)

$\dfrac{3}{5} = \boxed{60\%}$

8.11)

$220 - 26 = 194$ $\qquad$ $80\% \ 194 = \dfrac{4}{5} \cdot 194 = \dfrac{776}{5} = 155\dfrac{1}{5} \approx \boxed{155} \ BPM$

8.12)

$15\% \ x = 3$

$\dfrac{15}{100} x = 3$

$x = \dfrac{\frac{1}{3} \cdot 100}{\frac{15}{5}} = \boxed{20}$

8.13)

$\cdot \ 30\% \ 200 = 60$ $\qquad$ queda con 140. $\qquad$ $40\% \ 140 = \dfrac{2}{\cancel{8}} \left(\cancel{140}^{\ 20} \right) = 56$

$\boxed{42}$ $\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ $140 - 56 = 84$

8.14)

$60 \ ml$

$80\% (60) = 48 \ ml$ de aceite y $12ml$ de vinagre.

$\dfrac{\cancel{\cancel{16}}^{1}_{4}}{\cancel{\cancel{64}}_{\cancel{16}_{4}}} = \dfrac{1}{4}$ $\qquad$ $48ml + 16ml = 64ml$

$\qquad\qquad\qquad$ $\boxed{25\%}$

Ejercicios

8.2.1)

Total $= 25$

Shaded $= 9 + 4 = 13$ $\qquad$ $\dfrac{13}{25} = \dfrac{52}{100}$ $\qquad$ $\boxed{52\%}$

8.2.2) $\qquad$ 7

$$\frac{\frac{20}{46}}{10} = \frac{7}{10} = \boxed{70\%}$$

8.2.3) $\frac{15}{50}$ $\boxed{30\%}$

8.2.4)

(a) $270,000 \times \frac{6}{100} = \boxed{16200}$

(b) $6\% \ X = 15.000$ $\qquad X = \frac{15\,000 \cdot 50}{6}^{5}$

$\frac{6}{100}(x) = 15000$ $\qquad\qquad X = \boxed{250,000}$

8.2.5)

$7 + 12 + 21 = 40$ correctas

$60\% \ 75 = 45.$ $\qquad$ Necesitaba $\boxed{5}$ respuestas adicionales correctas.

8.2.6)

$yellow = 30\% (30) = 9$ $\qquad\qquad\qquad \frac{14}{35} = \frac{x}{100}$

$$\frac{\overset{20}{100} \cdot \overset{2}{14}}{\underset{1}{\overset{75}{35}}} = \boxed{40\%}$$

8.2.7)

$20\% \ x = 3$

$\boxed{12}$

8.2.8)

$45\% \cdot x = 7$

$\frac{35}{100}(x) = 7$ $\qquad x = \frac{7 \cdot \overset{1}{100}^{20}}{\underset{1}{\overset{75}{35}}} = 20$ $\qquad 20 - 7 = \boxed{13}$

8.2.9)

$\frac{30}{50} \cdot$ $\qquad \frac{30 + a}{50 + 40} = \frac{70}{100}$ $\qquad 30 + a = \frac{7 \cdot 90}{10}$

$\qquad\qquad\qquad\qquad\qquad\qquad\qquad 30 + a = 63$

$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad a = \boxed{33}$

8.2.10)

$W \simeq 100$ $\qquad\qquad 30\% (100) + 45\% (200)$ $\qquad 30 + 90 \qquad 4$

$E = 200$ 300 $\frac{}{300} = \frac{}{10}$

40% $= \frac{2}{5}$

8.2.11)

$\frac{75}{100} \left(500 \right) = 375$ aprobaron.

abrían 75 aprobados más.

$\frac{40}{100} \left(500 \right) = 450$ aprobarían.