

79

All mixed up!
#2, 5, 6, 8

10/24

$$2.) \quad 9x + 11x = 60$$

$$\frac{20x}{20} = \frac{60}{20}$$

$$x = 3 \text{ hrs}$$

$$5.) \quad 3(34 - x) = x + 2$$

$$102 - 3x = x + 2$$

$$\frac{+3x \quad +3x}{102 = 4x + 2}$$

$$\frac{-2 \quad -2}{100 = 4x}$$

$$\frac{25}{4} = \frac{4x}{4}$$

$25 = x$
 Abby = 25 yrs
 Giordanna = $32 - 25 = 7$ yrs

$$6.) \quad \left(\frac{88 \text{ ft}}{1 \text{ sec}} \right) \left(\frac{3600 \text{ sec}}{1 \text{ hr}} \right) \left(\frac{24 \text{ hr}}{1 \text{ day}} \right) \left(\frac{1 \text{ ft}}{12 \text{ in}} \right) \left(\frac{1 \text{ mi}}{5280 \text{ ft}} \right)$$

$$= \frac{7,603,200}{63,360}$$

$$= 120 \text{ mi/day}$$

$$8) \quad 5(2x) + 10(2x + 4) + 25x = 205$$

$$10x + 20x + 40 + 25x = 205$$

$$55x + 40 = 205$$

$$\begin{array}{r} -40 \quad -40 \\ \hline \end{array}$$

$$\begin{array}{r} 55x = 165 \\ \hline 55 \quad 55 \end{array}$$

$$x = 3$$

ans:

nickels - 3

dimes - 10

quarters - 6