

HW: December 15 Answer Key

50

HW:

12/15

ans

1) let $2x = \text{Brooke's age} = 6 \text{ yrs}$
 $7x = \text{dad's age} = 7(6) = 42 \text{ yrs}$
 $2x + 7x = 54$
 $\frac{9x}{9} = \frac{54}{9}$
 $x = 6$

2) $8x + 5x = 611$ bunnies $= 8(47) = 376$
 $\frac{13x}{13} = \frac{611}{13}$ chicks $= 5(47) = 235$
 $x = 47$

3) $3x + 2x = 540$ Christmas cards $= 3(108) = 324$
 $\frac{5x}{5} = \frac{540}{5}$ bday cards $= 2(108) = 216$
 $x = 108$

4) $10 \left[\begin{array}{cc} 2x & 5x \\ \frac{2x}{2} + \frac{3x}{2} = \frac{19}{2} \end{array} \right]$

$14x + 15x = 95$

$\frac{19x}{19} = \frac{95}{19}$

$x = 5$

symp $= \frac{2}{5}(5) = 2 \text{ ounces}$

5) $\frac{14}{4} = \frac{x}{12}$
 $4x = 14(12)$
 $\frac{4x}{4} = \frac{168}{4}$

$x = 42 \text{ times}$

6) $\frac{2}{5} (75) = \frac{15}{5} = 30$ spend

$75 - 30 = 45$ leftover

7) $\frac{2x+8}{12} = \frac{x-3}{7}$

$12(x-3) = 7(2x+8)$

$12x - 36 = 14x + 56$

$\frac{-14x}{-14x} \quad \frac{-14x}{-14x}$

$-2x - 36 = 56$

$\frac{+36}{+36} \quad \frac{+36}{+36}$

$\frac{-2x}{-2} = \frac{92}{-2}$

$x = -46$