

$$\textcircled{1} \quad \cancel{3}x = \frac{15}{\cancel{3}} \quad \boxed{x=5}$$

$$\textcircled{2} \quad 4x - 2 = 18$$

$$\quad \quad \quad +2 \quad \quad +2$$

$$\quad \cancel{4}x = \frac{20}{\cancel{4}} \quad \boxed{x=5}$$

$$\textcircled{3} \quad \frac{w}{10} + 6 = 14$$

$$\quad \quad \quad -6 \quad -6$$

$$\cancel{10} \cdot \frac{w}{\cancel{10}} = 8 \cdot 10$$

$$\boxed{w=80}$$

$$\textcircled{1} \quad 3(x+10) = 60$$

$$3x + \cancel{30} = \cancel{60}$$

$$\quad \quad \quad -30 \quad -30$$

$$\quad \quad \quad \cancel{3}x = \frac{30}{\cancel{3}} \quad \boxed{x=10}$$

$$\textcircled{2} \quad -4(12-7w) = 48$$

$$-48 + 28w = 48$$

$$\quad +48 \quad \quad \quad +48$$

$$\frac{\cancel{28}w}{\cancel{28}} = \frac{96}{\cancel{28}}$$

$$w = \frac{48}{14}$$

$$\boxed{= \frac{24}{7}}$$

④  $3(q-7) + 4q = 21$   
 $3q - 21 + 4q = 21$   
 $3q + 4q - 21 = 21$   
 $7q - 21 = 21$   
 $\begin{array}{r} 7q - 21 = 21 \\ +21 \quad +21 \end{array}$        $\cancel{7q} = \frac{42}{7}$   
 $q = 6$

⑤  $-6t(4-7) - 3t = 64$        $q = 6$   
 $\boxed{-24t + 42t - 3t = 64}$   
 $18t - 3t = 64$   
 $\frac{15t}{15} = \frac{64}{15}$   
 $\boxed{t = \frac{64}{15}}$

ON YOUR OWN

⑥  $3(-6x+9) - 10x = 1$   
 $-18x + 27 - 10x = 1$   
 $-18x - 10x + 27 = 1$   
 $\begin{array}{r} -18x - 10x + 27 = 1 \\ -28x + 27 = 1 \\ -27 \quad -27 \end{array}$        $\frac{-28x}{-28} = \frac{-26}{-28}$   
 $x = \frac{-26}{-28}$   
 $\boxed{x = \frac{13}{14}}$

⑦  $-9(8-m) + 3 = 5$        $\boxed{x = \frac{13}{14}}$   
 $\boxed{-72} + 9m \boxed{-3} = 5$   
 $-85 + 9m = 5$   
 $\begin{array}{r} -85 + 9m = 5 \\ +85 \quad +85 \end{array}$   
 $\frac{9m}{9} = \frac{90}{9}$   
 $\boxed{m = 10}$

Day 2

$$\textcircled{8} \quad -8x + 6(3x+5) = -25$$

$$-8x + 18x + 30 = -25$$

$$10x + \cancel{30} = \cancel{-30} - 25$$

$$10x = \frac{-55}{10} \quad \boxed{x = \frac{-11}{2}}$$

$$\textcircled{14} \quad 10(-3-2t) + 10 - 2(6t-13) = 0$$

$$-30 - 20t + 10 - 12t + 26 = 0$$

Rewrite

$$\underline{-20t - 12t} \quad \underline{-30 + 10 + 26} = 0$$

$$-32t + 6 = 0$$

$$\cancel{-32t} = \cancel{-6}$$

$$t = \frac{6}{32} = \boxed{\frac{3}{16}}$$

$$(15) -7 = -5y + 4(-y+9) - 7(7+3y)$$

rewrite  $-7 = -5y - 4y + 36 - 49 - 21y$

$$-5y - 4y - 21y + 36 - 49 = -7$$

$$-30y - 13 = -7$$

$$\begin{array}{r} -30y = 6 \\ \underline{-30} \quad \underline{-30} \\ -30y = 6 \end{array}$$

$$y = -\frac{3}{15}$$

$$\boxed{y = -\frac{1}{5}}$$

$$(16) -(15p-1) + 24 + 2(5+5p) = 0$$

$$\begin{array}{r} 8x - 2 = -9 \\ -7x \end{array} \quad \begin{array}{r} +7x \\ -7x \end{array}$$

$$\begin{array}{r} x - 2 = -9 \\ +2 \quad +2 \end{array}$$

$$\boxed{x = -7}$$

$$p-1 = 5p+3p-8$$

$$\cancel{p}-1 = 8p-8$$

$$\begin{array}{r} -1 \\ +8 \end{array} = \begin{array}{r} 8p \\ -p \\ -8 \\ +8 \end{array}$$

$$\frac{7}{7} = \frac{7p}{7}$$

$$\boxed{1=p}$$