EX. 10

PEMDAS ←

1. $3 + x = 0$ ←
   $-3 \quad -3$
   $\boxed{x = -3}$

2. $3 + x = 3$ ←
   $-3 \quad -3$
   $\boxed{x = 0}$

3. $\frac{3 \cdot x}{3} = \frac{1}{3}$ ←
   $\boxed{x = 1/3 = 0.333}$

4. $8 = 4 \cdot x \div 4$ ←
   $\div 4$
   $\boxed{2 = x}$

5. $y + 8 = 10$ ←
   $-8 \quad -8$
   $\boxed{y = 2}$

6. $5 \cdot y + 4 = 0$
   2nd ↑ ↖ 1st

   $5 \cdot y + 4 - 4 = 0 - 4$ ←

   $\frac{5 \cdot y}{5} = \frac{-4}{5}$ ←

   $\boxed{y = -4/5 = -0.8}$

7. $y/2 = 1$

   $y/2 \cdot 2 = 1 \cdot 2$ ←

   $\boxed{y = 2}$

8. $x/5 = 1/5$

$\frac{x}{5} \cdot 5 = x/5 \cdot 5 = 1/5 \cdot 5 = \frac{1}{5} \cdot 5$ ←

$\boxed{x = 1}$

9. $5 \cdot x = 1/5 = \frac{1}{5}$

$\frac{5x}{5} = \frac{1/5}{5}$ ←

$\boxed{x = 1/25 = 0.04}$

10. $5 \cdot x/6 = 3/4$

$5 \cdot x/6 \cdot 6 = 3/4 \cdot 6$ ←

$\frac{5 \cdot x}{5} = \frac{4.5}{5}$ ←

$\boxed{x = 0.9}$

OR $\frac{5}{6}x = \frac{3}{4}$

$\frac{\frac{5}{6}x}{5/6} = \frac{\frac{3}{4}}{5/6}$ ←

$\boxed{x = \frac{9}{10} = 0.9}$

11. $\frac{2}{3}x + \frac{1}{3} = 4$

(2nd, 1ST)

$\frac{2}{3}x + \frac{1}{3} - \frac{1}{3} = 4 - \frac{1}{3}$ ←

$\frac{\frac{2}{3}x}{2/3} = \frac{\frac{11}{3}}{2/3}$ ←

$\boxed{x = 5.5}$

12. $x + \frac{4}{5} = \frac{3}{4}$

$-\frac{4}{5} \quad -\frac{4}{5}$ ←

$\boxed{x = -0.05}$

13. $3x + 4x = 10$

$(3+4)x = 10$ ←

$\frac{7x}{7} = \frac{10}{7}$ ←

$\boxed{x = \frac{10}{7} = 1.43}$

14. $3x + 4 = 9x$

$-3x \qquad -3x$

$\frac{4}{6} = \frac{6x}{6}$

$\boxed{0.667 = x}$