

Name: _____

Date: _____

Inverse operations: Questions

$$\begin{aligned}
 (1) \quad & 4(x+9) = 68 \\
 & \frac{4(x+9)}{\quad} = \frac{68}{\quad} \\
 & \quad \quad \dots \quad \quad \dots \\
 & x+9 = \dots \\
 & x+9 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad & \frac{x+1}{7} = 5 \\
 & \frac{x+1}{7} \times \dots = 5 \times \dots \\
 & x+1 = \dots \\
 & x+1 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{x}{3} + 6 = 10 \\
 & \frac{x}{3} + 6 - \dots = 10 - \dots \\
 & \quad \quad \frac{x}{3} = \dots \\
 & \frac{x}{3} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (7) \quad & 8x - 6 = 10 \\
 & 8x - 6 + \dots = 10 + \dots \\
 & 8x = \dots \\
 & \frac{8x}{\quad} = \frac{\dots}{\quad} \\
 & \quad \quad \dots \quad \quad \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \frac{x+5}{10} = 8 \\
 & \frac{x+5}{10} \times \dots = 8 \times \dots \\
 & x+5 = \dots \\
 & x+5 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (8) \quad & \frac{x}{5} - 2 = 7 \\
 & \frac{x}{5} - 2 + \dots = 7 + \dots \\
 & \quad \quad \frac{x}{5} = \dots \\
 & \frac{x}{5} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \frac{x+7}{6} = 9 \\
 & \frac{x+7}{6} \times \dots = 9 \times \dots \\
 & x+7 = \dots \\
 & x+7 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (9) \quad & \frac{x+4}{10} = 10 \\
 & \frac{x+4}{10} \times \dots = 10 \times \dots \\
 & x+4 = \dots \\
 & x+4 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & 4x - 7 = 33 \\
 & 4x - 7 + \dots = 33 + \dots \\
 & 4x = \dots \\
 & \frac{4x}{\quad} = \frac{\dots}{\quad} \\
 & \quad \quad \dots \quad \quad \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (10) \quad & \frac{x-2}{8} = 8 \\
 & \frac{x-2}{8} \times \dots = 8 \times \dots \\
 & x-2 = \dots \\
 & x-2 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (11) \quad & \frac{x}{7} + 5 = 11 \\
 & \frac{x}{7} + 5 - \dots = 11 - \dots \\
 & \frac{x}{7} = \dots \\
 & \frac{x}{7} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (12) \quad & 10(x - 6) = 30 \\
 & \frac{10(x - 6)}{\dots} = \frac{30}{\dots} \\
 & x - 6 = \dots \\
 & x - 6 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (13) \quad & 5x + 6 = 26 \\
 & 5x + 6 - \dots = 26 - \dots \\
 & 5x = \dots \\
 & \frac{5x}{\dots} = \frac{\dots}{\dots} \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (14) \quad & 3(x - 2) = 3 \\
 & \frac{3(x - 2)}{\dots} = \frac{3}{\dots} \\
 & x - 2 = \dots \\
 & x - 2 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (15) \quad & \frac{x}{8} + 4 = 6 \\
 & \frac{x}{8} + 4 - \dots = 6 - \dots \\
 & \frac{x}{8} = \dots \\
 & \frac{x}{8} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (16) \quad & \frac{x - 1}{8} = 2 \\
 & \frac{x - 1}{8} \times \dots = 2 \times \dots \\
 & x - 1 = \dots \\
 & x - 1 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (17) \quad & 7x - 3 = 25 \\
 & 7x - 3 + \dots = 25 + \dots \\
 & 7x = \dots \\
 & \frac{7x}{\dots} = \frac{\dots}{\dots} \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (18) \quad & \frac{x + 1}{6} = 10 \\
 & \frac{x + 1}{6} \times \dots = 10 \times \dots \\
 & x + 1 = \dots \\
 & x + 1 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (19) \quad & \frac{x}{9} - 3 = -1 \\
 & \frac{x}{9} - 3 + \dots = -1 + \dots \\
 & \frac{x}{9} = \dots \\
 & \frac{x}{9} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (20) \quad & 7(x - 5) = 14 \\
 & \frac{7(x - 5)}{\dots} = \frac{14}{\dots} \\
 & x - 5 = \dots \\
 & x - 5 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
(21) \quad & \frac{x-5}{5} = 2 \\
& \frac{x-5}{5} \times \dots = 2 \times \dots \\
& x-5 = \dots \\
& x-5 + \dots = \dots + \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(22) \quad & 8(x-2) = 8 \\
& \frac{8(x-2)}{\dots} = \frac{8}{\dots} \\
& x-2 = \dots \\
& x-2 + \dots = \dots + \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(23) \quad & \frac{x+3}{2} = 9 \\
& \frac{x+3}{2} \times \dots = 9 \times \dots \\
& x+3 = \dots \\
& x+3 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(24) \quad & 10x + 6 = 16 \\
& 10x + 6 - \dots = 16 - \dots \\
& 10x = \dots \\
& \frac{10x}{\dots} = \frac{\dots}{\dots} \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(25) \quad & \frac{x}{10} + 10 = 15 \\
& \frac{x}{10} + 10 - \dots = 15 - \dots \\
& \frac{x}{10} = \dots \\
& \frac{x}{10} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(26) \quad & \frac{x}{9} + 3 = 7 \\
& \frac{x}{9} + 3 - \dots = 7 - \dots \\
& \frac{x}{9} = \dots \\
& \frac{x}{9} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(27) \quad & 2(x+7) = 30 \\
& \frac{2(x+7)}{\dots} = \frac{30}{\dots} \\
& x+7 = \dots \\
& x+7 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(28) \quad & 2x - 6 = 12 \\
& 2x - 6 + \dots = 12 + \dots \\
& 2x = \dots \\
& \frac{2x}{\dots} = \frac{\dots}{\dots} \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(29) \quad & \frac{x-2}{5} = 4 \\
& \frac{x-2}{5} \times \dots = 4 \times \dots \\
& x-2 = \dots \\
& x-2 + \dots = \dots + \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(30) \quad & \frac{x-8}{2} = 7 \\
& \frac{x-8}{2} \times \dots = 7 \times \dots \\
& x-8 = \dots \\
& x-8 + \dots = \dots + \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(31) \quad & 5(x-5) = -10 \\
& \frac{5(x-5)}{\dots} = \frac{-10}{\dots} \\
& x-5 = \dots \\
& x-5 + \dots = \dots + \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(32) \quad & \frac{x-4}{5} = 4 \\
& \frac{x-4}{5} \times \dots = 4 \times \dots \\
& x-4 = \dots \\
& x-4 + \dots = \dots + \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(33) \quad & \frac{x}{6} + 10 = 15 \\
& \frac{x}{6} + 10 - \dots = 15 - \dots \\
& \frac{x}{6} = \dots \\
& \frac{x}{6} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(34) \quad & \frac{x}{2} - 6 = -2 \\
& \frac{x}{2} - 6 + \dots = -2 + \dots \\
& \frac{x}{2} = \dots \\
& \frac{x}{2} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(35) \quad & \frac{x}{5} - 4 = -1 \\
& \frac{x}{5} - 4 + \dots = -1 + \dots \\
& \frac{x}{5} = \dots \\
& \frac{x}{5} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(36) \quad & \frac{x+2}{10} = 10 \\
& \frac{x+2}{10} \times \dots = 10 \times \dots \\
& x+2 = \dots \\
& x+2 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(37) \quad & \frac{x+5}{7} = 10 \\
& \frac{x+5}{7} \times \dots = 10 \times \dots \\
& x+5 = \dots \\
& x+5 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(38) \quad & \frac{x}{7} + 1 = 3 \\
& \frac{x}{7} + 1 - \dots = 3 - \dots \\
& \frac{x}{7} = \dots \\
& \frac{x}{7} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(39) \quad & 7(x+9) = 119 \\
& \frac{7(x+9)}{\dots} = \frac{119}{\dots} \\
& x+9 = \dots \\
& x+9 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(40) \quad & \frac{x+6}{3} = 10 \\
& \frac{x+6}{3} \times \dots = 10 \times \dots \\
& x+6 = \dots \\
& x+6 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
 (41) \quad & 9x - 4 = 77 \\
 & 9x - 4 + \dots = 77 + \dots \\
 & 9x = \dots \\
 & \frac{9x}{9} = \frac{\dots}{9} \\
 & \dots = \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (46) \quad & 7x - 8 = -1 \\
 & 7x - 8 + \dots = -1 + \dots \\
 & 7x = \dots \\
 & \frac{7x}{7} = \frac{\dots}{7} \\
 & \dots = \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (42) \quad & 4(x + 5) = 24 \\
 & \frac{4(x + 5)}{4} = \frac{24}{4} \\
 & \dots = \dots \\
 & x + 5 = \dots \\
 & x + 5 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (47) \quad & 2x - 2 = 4 \\
 & 2x - 2 + \dots = 4 + \dots \\
 & 2x = \dots \\
 & \frac{2x}{2} = \frac{\dots}{2} \\
 & \dots = \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (43) \quad & \frac{x}{9} - 3 = 6 \\
 & \frac{x}{9} - 3 + \dots = 6 + \dots \\
 & \frac{x}{9} = \dots \\
 & \frac{x}{9} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (48) \quad & \frac{x + 1}{10} = 1 \\
 & \frac{x + 1}{10} \times \dots = 1 \times \dots \\
 & x + 1 = \dots \\
 & x + 1 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (44) \quad & \frac{x}{9} - 4 = 6 \\
 & \frac{x}{9} - 4 + \dots = 6 + \dots \\
 & \frac{x}{9} = \dots \\
 & \frac{x}{9} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (49) \quad & 2(x + 4) = 26 \\
 & \frac{2(x + 4)}{2} = \frac{26}{2} \\
 & \dots = \dots \\
 & x + 4 = \dots \\
 & x + 4 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (45) \quad & \frac{x + 3}{2} = 3 \\
 & \frac{x + 3}{2} \times \dots = 3 \times \dots \\
 & x + 3 = \dots \\
 & x + 3 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (50) \quad & \frac{x}{5} + 9 = 18 \\
 & \frac{x}{5} + 9 - \dots = 18 - \dots \\
 & \frac{x}{5} = \dots \\
 & \frac{x}{5} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (51) \quad & \frac{x+3}{4} = 6 \\
 & \frac{x+3}{4} \times \dots = 6 \times \dots \\
 & x+3 = \dots \\
 & x+3 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (56) \quad & 2x+9 = 23 \\
 & 2x+9 - \dots = 23 - \dots \\
 & 2x = \dots \\
 & \frac{2x}{\dots} = \frac{\dots}{\dots} \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (52) \quad & 9x-4 = 5 \\
 & 9x-4 + \dots = 5 + \dots \\
 & 9x = \dots \\
 & \frac{9x}{\dots} = \frac{\dots}{\dots} \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (57) \quad & \frac{x}{7} + 7 = 9 \\
 & \frac{x}{7} + 7 - \dots = 9 - \dots \\
 & \frac{x}{7} = \dots \\
 & \frac{x}{7} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (53) \quad & \frac{x+3}{2} = 5 \\
 & \frac{x+3}{2} \times \dots = 5 \times \dots \\
 & x+3 = \dots \\
 & x+3 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (58) \quad & 8x+6 = 38 \\
 & 8x+6 - \dots = 38 - \dots \\
 & 8x = \dots \\
 & \frac{8x}{\dots} = \frac{\dots}{\dots} \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (54) \quad & \frac{x+2}{9} = 7 \\
 & \frac{x+2}{9} \times \dots = 7 \times \dots \\
 & x+2 = \dots \\
 & x+2 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (59) \quad & \frac{x}{7} - 10 = -1 \\
 & \frac{x}{7} - 10 + \dots = -1 + \dots \\
 & \frac{x}{7} = \dots \\
 & \frac{x}{7} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (55) \quad & \frac{x}{2} + 10 = 13 \\
 & \frac{x}{2} + 10 - \dots = 13 - \dots \\
 & \frac{x}{2} = \dots \\
 & \frac{x}{2} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (60) \quad & \frac{x}{9} - 5 = 0 \\
 & \frac{x}{9} - 5 + \dots = 0 + \dots \\
 & \frac{x}{9} = \dots \\
 & \frac{x}{9} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (61) \quad & 10(x-8) = 10 \\
 & \frac{10(x-8)}{\dots} = \frac{10}{\dots} \\
 & x-8 = \dots \\
 & x-8 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (62) \quad & 4(x+7) = 48 \\
 & \frac{4(x+7)}{\dots} = \frac{48}{\dots} \\
 & x+7 = \dots \\
 & x+7 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (63) \quad & 7(x-3) = 21 \\
 & \frac{7(x-3)}{\dots} = \frac{21}{\dots} \\
 & x-3 = \dots \\
 & x-3 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (64) \quad & \frac{x}{3} - 3 = 7 \\
 & \frac{x}{3} - 3 + \dots = 7 + \dots \\
 & \frac{x}{3} = \dots \\
 & \frac{x}{3} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (65) \quad & 8x + 3 = 19 \\
 & 8x + 3 - \dots = 19 - \dots \\
 & 8x = \dots \\
 & \frac{8x}{\dots} = \frac{\dots}{\dots} \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (66) \quad & \frac{x}{5} - 8 = -4 \\
 & \frac{x}{5} - 8 + \dots = -4 + \dots \\
 & \frac{x}{5} = \dots \\
 & \frac{x}{5} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (67) \quad & 2(x-10) = -4 \\
 & \frac{2(x-10)}{\dots} = \frac{-4}{\dots} \\
 & x-10 = \dots \\
 & x-10 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (68) \quad & 6x - 9 = 51 \\
 & 6x - 9 + \dots = 51 + \dots \\
 & 6x = \dots \\
 & \frac{6x}{\dots} = \frac{\dots}{\dots} \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (69) \quad & 9x - 6 = 75 \\
 & 9x - 6 + \dots = 75 + \dots \\
 & 9x = \dots \\
 & \frac{9x}{\dots} = \frac{\dots}{\dots} \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (70) \quad & \frac{x}{9} - 3 = 7 \\
 & \frac{x}{9} - 3 + \dots = 7 + \dots \\
 & \frac{x}{9} = \dots \\
 & \frac{x}{9} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
(71) \quad & \frac{x+3}{8} = 9 \\
& \frac{x+3}{8} \times \dots = 9 \times \dots \\
& x+3 = \dots \\
& x+3 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(76) \quad & \frac{x}{5} - 3 = 2 \\
& \frac{x}{5} - 3 + \dots = 2 + \dots \\
& \frac{x}{5} = \dots \\
& \frac{x}{5} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(72) \quad & \frac{x}{7} + 3 = 13 \\
& \frac{x}{7} + 3 - \dots = 13 - \dots \\
& \frac{x}{7} = \dots \\
& \frac{x}{7} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(77) \quad & \frac{x+5}{8} = 4 \\
& \frac{x+5}{8} \times \dots = 4 \times \dots \\
& x+5 = \dots \\
& x+5 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(73) \quad & \frac{x}{5} - 2 = 3 \\
& \frac{x}{5} - 2 + \dots = 3 + \dots \\
& \frac{x}{5} = \dots \\
& \frac{x}{5} \times \dots = \dots \times \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(78) \quad & 6x - 8 = 34 \\
& 6x - 8 + \dots = 34 + \dots \\
& 6x = \dots \\
& \frac{6x}{\dots} = \frac{\dots}{\dots} \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(74) \quad & 7x + 7 = 42 \\
& 7x + 7 - \dots = 42 - \dots \\
& 7x = \dots \\
& \frac{7x}{\dots} = \frac{\dots}{\dots} \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(79) \quad & \frac{x-9}{9} = 5 \\
& \frac{x-9}{9} \times \dots = 5 \times \dots \\
& x-9 = \dots \\
& x-9 + \dots = \dots + \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(75) \quad & \frac{x+10}{6} = 4 \\
& \frac{x+10}{6} \times \dots = 4 \times \dots \\
& x+10 = \dots \\
& x+10 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$

$$\begin{aligned}
(80) \quad & \frac{x+10}{8} = 4 \\
& \frac{x+10}{8} \times \dots = 4 \times \dots \\
& x+10 = \dots \\
& x+10 - \dots = \dots - \dots \\
& x = \dots
\end{aligned}$$