

Date: _____

2-step backtracking: Questions

(1)

| | | | | |
|-----|--------------------|-----|------------------------|-----|
| x | $\xrightarrow{-2}$ | | $\xrightarrow{\div 4}$ | |
| $=$ | | $=$ | | $=$ |
| | | | | 10 |

← ←

(6)

| | | | | |
|-----|--------------------|-----|------------------------|-----|
| x | $\xrightarrow{-5}$ | | $\xrightarrow{\div 6}$ | |
| $=$ | | $=$ | | $=$ |
| | | | | 4 |

$\xleftarrow{\hspace{1cm}}$ $\xleftarrow{\hspace{1cm}}$

(2)

| | | | | |
|-----|--------------------|-----|------------------------|-----|
| x | $\xrightarrow{-8}$ | | $\xrightarrow{\div 5}$ | |
| $=$ | | $=$ | | $=$ |
| | | | | 6 |

(7)

Diagram (7) shows a sequence of three boxes connected by arrows. The first box contains x above an equals sign. An arrow labeled -2 points to the second box, which contains an equals sign. An arrow labeled $\div 1$ points to the third box, which contains an equals sign above the number 4 . Below the boxes, two arrows point left from the second and third boxes respectively.

(3)

| | | | | |
|-----|--------------------|-----|------------------------|-----|
| x | $\xrightarrow{-9}$ | | $\xrightarrow{\div 8}$ | |
| $=$ | | $=$ | | $=$ |
| | | | | 1 |

(8)

| | | | | |
|-----|--------------------|-----|------------------------|-----|
| x | $\xrightarrow{-2}$ | | $\xrightarrow{\div 6}$ | |
| $=$ | | $=$ | | $=$ |
| | | | | 7 |

(4)

Diagram illustrating the steps to solve the equation $x - 4 = 6$:

- Step 1: x
- Step 2: $=$ (after subtracting 4)
- Step 3: $= 6$ (after dividing by 3)

(9)

Diagram illustrating the steps to solve the equation $x - 4 = 6$:

- Step 1: Initial equation: x (top section), $=$ (middle section).
- Step 2: Add 4 to both sides: $=$ (middle section).
- Step 3: Divide both sides by 9: $=$ (middle section), 6 (bottom section).

(5)

| | | | | |
|-----|--------------------|-----|------------------------|-----|
| x | $\xrightarrow{-6}$ | | $\xrightarrow{\div 9}$ | |
| $=$ | | $=$ | | $=$ |
| | | | | 7 |

(10)

| | | | | |
|-----|--------------------|-----|------------------------|-----|
| x | $\xrightarrow{-5}$ | | $\xrightarrow{\div 6}$ | |
| $=$ | | $=$ | | $=$ |
| | | | | 9 |