

Name: _____

Date: _____

2-step Backtracking: Questions

(1)

x

$=$

$\xrightarrow{\times 9}$

$=$

$\xrightarrow{+9}$

$=$

81

\leftarrow

\leftarrow

(6)

x

$=$

$\xrightarrow{-5}$

$=$

$\xrightarrow{\times 9}$

$=$

45

\leftarrow

\leftarrow

(2)

x

$=$

$\xrightarrow{+5}$

$=$

$\xrightarrow{\times 9}$

$=$

72

\leftarrow

\leftarrow

(7)

x

$=$

$\xrightarrow{+10}$

$=$

$\xrightarrow{\div 10}$

$=$

5

\leftarrow

\leftarrow

(3)

x

$=$

$\xrightarrow{+7}$

$=$

$\xrightarrow{\times 6}$

$=$

102

\leftarrow

\leftarrow

(8)

x

$=$

$\xrightarrow{-9}$

$=$

$\xrightarrow{\div 1}$

$=$

4

\leftarrow

\leftarrow

(4)

x

$=$

$\xrightarrow{\div 7}$

$=$

$\xrightarrow{-7}$

$=$

10

\leftarrow

\leftarrow

(9)

x

$=$

$\xrightarrow{+6}$

$=$

$\xrightarrow{\div 4}$

$=$

3

\leftarrow

\leftarrow

(5)

x

$=$

$\xrightarrow{\times 8}$

$=$

$\xrightarrow{-6}$

$=$

58

\leftarrow

\leftarrow

(10)

x

$=$

$\xrightarrow{\div 4}$

$=$

$\xrightarrow{+3}$

$=$

11

\leftarrow

\leftarrow

Name: _____

Date: _____

2-step Backtracking: Answers

(1)

x
=
8

 $\xrightarrow{\times 9}$

$9x$
=
72

 $\xrightarrow{+9}$

$9x + 9$
=
81

$\xleftarrow{\div 9}$ $\xleftarrow{-9}$

(6)

x
=
10

 $\xrightarrow{-5}$

$x - 5$
=
5

 $\xrightarrow{\times 9}$

$9(x - 5)$
=
45

$\xleftarrow{+5}$ $\xleftarrow{\div 9}$

(2)

x
=
3

 $\xrightarrow{+5}$

$x + 5$
=
8

 $\xrightarrow{\times 9}$

$9(x + 5)$
=
72

$\xleftarrow{-5}$ $\xleftarrow{\div 9}$

(7)

x
=
40

 $\xrightarrow{+10}$

$x + 10$
=
50

 $\xrightarrow{\div 10}$

$\frac{(x+10)}{10}$
=
5

$\xleftarrow{-10}$ $\xleftarrow{\times 10}$

(3)

x
=
10

 $\xrightarrow{+7}$

$x + 7$
=
17

 $\xrightarrow{\times 6}$

$6(x + 7)$
=
102

$\xleftarrow{-7}$ $\xleftarrow{\div 6}$

(8)

x
=
13

 $\xrightarrow{-9}$

$x - 9$
=
4

 $\xrightarrow{\div 1}$

$\frac{(x-9)}{1}$
=
4

$\xleftarrow{+9}$ $\xleftarrow{\times 1}$

(4)

x
=
119

 $\xrightarrow{\div 7}$

$\frac{x}{7}$
=
17

 $\xrightarrow{-7}$

$\frac{x}{7} - 7$
=
10

$\xleftarrow{\times 7}$ $\xleftarrow{+7}$

(9)

x
=
6

 $\xrightarrow{+6}$

$x + 6$
=
12

 $\xrightarrow{\div 4}$

$\frac{(x+6)}{4}$
=
3

$\xleftarrow{-6}$ $\xleftarrow{\times 4}$

(5)

x
=
8

 $\xrightarrow{\times 8}$

$8x$
=
64

 $\xrightarrow{-6}$

$8x - 6$
=
58

$\xleftarrow{\div 8}$ $\xleftarrow{+6}$

(10)

x
=
32

 $\xrightarrow{\div 4}$

$\frac{x}{4}$
=
8

 $\xrightarrow{+3}$

$\frac{x}{4} + 3$
=
11

$\xleftarrow{\times 4}$ $\xleftarrow{-3}$