

Name: _____

Date: _____

2-step backtracking: Answers

(1)

x
=
47

 $\xrightarrow{+2}$

$x + 2$
=
49

 $\xrightarrow{\div 7}$

$\frac{(x+2)}{7}$
=
7

$\xleftarrow{-2} \quad \xleftarrow{\times 7}$

(6)

x
=
1

 $\xrightarrow{+3}$

$x + 3$
=
4

 $\xrightarrow{\div 1}$

$\frac{(x+3)}{1}$
=
4

$\xleftarrow{-3} \quad \xleftarrow{\times 1}$

(2)

x
=
76

 $\xrightarrow{+4}$

$x + 4$
=
80

 $\xrightarrow{\div 10}$

$\frac{(x+4)}{10}$
=
8

$\xleftarrow{-4} \quad \xleftarrow{\times 10}$

(7)

x
=
56

 $\xrightarrow{+7}$

$x + 7$
=
63

 $\xrightarrow{\div 9}$

$\frac{(x+7)}{9}$
=
7

$\xleftarrow{-7} \quad \xleftarrow{\times 9}$

(3)

x
=
34

 $\xrightarrow{+2}$

$x + 2$
=
36

 $\xrightarrow{\div 6}$

$\frac{(x+2)}{6}$
=
6

$\xleftarrow{-2} \quad \xleftarrow{\times 6}$

(8)

x
=
7

 $\xrightarrow{+8}$

$x + 8$
=
15

 $\xrightarrow{\div 5}$

$\frac{(x+8)}{5}$
=
3

$\xleftarrow{-8} \quad \xleftarrow{\times 5}$

(4)

x
=
62

 $\xrightarrow{+1}$

$x + 1$
=
63

 $\xrightarrow{\div 9}$

$\frac{(x+1)}{9}$
=
7

$\xleftarrow{-1} \quad \xleftarrow{\times 9}$

(9)

x
=
22

 $\xrightarrow{+6}$

$x + 6$
=
28

 $\xrightarrow{\div 7}$

$\frac{(x+6)}{7}$
=
4

$\xleftarrow{-6} \quad \xleftarrow{\times 7}$

(5)

x
=
1

 $\xrightarrow{+1}$

$x + 1$
=
2

 $\xrightarrow{\div 2}$

$\frac{(x+1)}{2}$
=
1

$\xleftarrow{-1} \quad \xleftarrow{\times 2}$

(10)

x
=
32

 $\xrightarrow{+8}$

$x + 8$
=
40

 $\xrightarrow{\div 8}$

$\frac{(x+8)}{8}$
=
5

$\xleftarrow{-8} \quad \xleftarrow{\times 8}$

(11)

x
=
18

 $\xrightarrow{+2}$

$x + 2$
=
20

 $\xrightarrow{\div 2}$

$\frac{(x+2)}{2}$
=
10

$\xleftarrow{-2} \quad \xleftarrow{\times 2}$

(16)

x
=
40

 $\xrightarrow{+8}$

$x + 8$
=
48

 $\xrightarrow{\div 8}$

$\frac{(x+8)}{8}$
=
6

$\xleftarrow{-8} \quad \xleftarrow{\times 8}$

(12)

x
=
5

 $\xrightarrow{+1}$

$x + 1$
=
6

 $\xrightarrow{\div 1}$

$\frac{(x+1)}{1}$
=
6

$\xleftarrow{-1} \quad \xleftarrow{\times 1}$

(17)

x
=
23

 $\xrightarrow{+1}$

$x + 1$
=
24

 $\xrightarrow{\div 6}$

$\frac{(x+1)}{6}$
=
4

$\xleftarrow{-1} \quad \xleftarrow{\times 6}$

(13)

x
=
45

 $\xrightarrow{+5}$

$x + 5$
=
50

 $\xrightarrow{\div 5}$

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

$\xleftarrow{-5} \quad \xleftarrow{\times 5}$

(18)

x
=
49

 $\xrightarrow{+5}$

$x + 5$
=
54

 $\xrightarrow{\div 9}$

$\frac{(x+5)}{9}$
=
6

$\xleftarrow{-5} \quad \xleftarrow{\times 9}$

(14)

x
=
0

 $\xrightarrow{+5}$

$x + 5$
=
5

 $\xrightarrow{\div 5}$

$\frac{(x+5)}{5}$
=
1

$\xleftarrow{-5} \quad \xleftarrow{\times 5}$

(19)

x
=
6

 $\xrightarrow{+3}$

$x + 3$
=
9

 $\xrightarrow{\div 3}$

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

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

(15)

x
=
17

 $\xrightarrow{+8}$

$x + 8$
=
25

 $\xrightarrow{\div 5}$

$\frac{(x+8)}{5}$
=
5

$\xleftarrow{-8} \quad \xleftarrow{\times 5}$

(20)

x
=
3

 $\xrightarrow{+2}$

$x + 2$
=
5

 $\xrightarrow{\div 1}$

$\frac{(x+2)}{1}$
=
5

$\xleftarrow{-2} \quad \xleftarrow{\times 1}$