

Name: _____

Date: _____

2-step backtracking: Answers

(1)

x
=
60

 $\xrightarrow{-10}$

$x - 10$
=
50

 $\xrightarrow{\div 5}$

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

$\xleftarrow{+10}$ $\xleftarrow{\times 5}$

(6)

x
=
4

 $\xrightarrow{\times 2}$

$2x$
=
8

 $\xrightarrow{-6}$

$2x - 6$
=
2

$\xleftarrow{\div 2}$ $\xleftarrow{+6}$

(2)

x
=
9

 $\xrightarrow{-5}$

$x - 5$
=
4

 $\xrightarrow{\times 2}$

$2(x - 5)$
=
8

$\xleftarrow{+5}$ $\xleftarrow{\div 2}$

(7)

x
=
81

 $\xrightarrow{\div 9}$

$\frac{x}{9}$
=
9

 $\xrightarrow{+5}$

$\frac{x}{9} + 5$
=
14

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

(3)

x
=
5

 $\xrightarrow{+6}$

$x + 6$
=
11

 $\xrightarrow{\times 6}$

$6(x + 6)$
=
66

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

(8)

x
=
10

 $\xrightarrow{\times 2}$

$2x$
=
20

 $\xrightarrow{+2}$

$2x + 2$
=
22

$\xleftarrow{\div 2}$ $\xleftarrow{-2}$

(4)

x
=
2

 $\xrightarrow{\times 4}$

$4x$
=
8

 $\xrightarrow{+3}$

$4x + 3$
=
11

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

(9)

x
=
24

 $\xrightarrow{+6}$

$x + 6$
=
30

 $\xrightarrow{\div 10}$

$\frac{(x+6)}{10}$
=
3

$\xleftarrow{-6}$ $\xleftarrow{\times 10}$

(5)

x
=
4

 $\xrightarrow{\times 5}$

$5x$
=
20

 $\xrightarrow{-9}$

$5x - 9$
=
11

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

(10)

x
=
14

 $\xrightarrow{\div 2}$

$\frac{x}{2}$
=
7

 $\xrightarrow{-5}$

$\frac{x}{2} - 5$
=
2

$\xleftarrow{\times 2}$ $\xleftarrow{+5}$

(11)

x
=
30

 $\xrightarrow{+10}$

$x + 10$
=
40

 $\xrightarrow{\div 10}$

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

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

(16)

x
=
9

 $\xrightarrow{+4}$

$x + 4$
=
13

 $\xrightarrow{\times 10}$

$10(x + 4)$
=
130

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

(12)

x
=
3

 $\xrightarrow{+4}$

$x + 4$
=
7

 $\xrightarrow{\times 2}$

$2(x + 4)$
=
14

$\xleftarrow{-4} \quad \xleftarrow{\div 2}$

(17)

x
=
49

 $\xrightarrow{\div 7}$

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

 $\xrightarrow{+4}$

$\frac{x}{7} + 4$
=
11

$\xleftarrow{\times 7} \quad \xleftarrow{-4}$

(13)

x
=
3

 $\xrightarrow{\times 4}$

$4x$
=
12

 $\xrightarrow{-6}$

$4x - 6$
=
6

$\xleftarrow{\div 4} \quad \xleftarrow{+6}$

(18)

x
=
29

 $\xrightarrow{-5}$

$x - 5$
=
24

 $\xrightarrow{\div 3}$

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

$\xleftarrow{+5} \quad \xleftarrow{\times 3}$

(14)

x
=
47

 $\xrightarrow{-7}$

$x - 7$
=
40

 $\xrightarrow{\div 8}$

$\frac{(x-7)}{8}$
=
5

$\xleftarrow{+7} \quad \xleftarrow{\times 8}$

(19)

x
=
42

 $\xrightarrow{+6}$

$x + 6$
=
48

 $\xrightarrow{\div 8}$

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

$\xleftarrow{-6} \quad \xleftarrow{\times 8}$

(15)

x
=
16

 $\xrightarrow{\div 2}$

$\frac{x}{2}$
=
8

 $\xrightarrow{-4}$

$\frac{x}{2} - 4$
=
4

$\xleftarrow{\times 2} \quad \xleftarrow{+4}$

(20)

x
=
6

 $\xrightarrow{\times 5}$

$5x$
=
30

 $\xrightarrow{+2}$

$5x + 2$
=
32

$\xleftarrow{\div 5} \quad \xleftarrow{-2}$