

Name: _____

Date: _____

2-step backtracking: Answers

(1)

x
=
2

 $\xrightarrow{\times 2}$

$2x$
=
4

 $\xrightarrow{+6}$

$2x + 6$
=
10

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

(6)

x
=
8

 $\xrightarrow{\times 3}$

$3x$
=
24

 $\xrightarrow{+7}$

$3x + 7$
=
31

$\xleftarrow{\div 3} \quad \xleftarrow{-7}$

(2)

x
=
10

 $\xrightarrow{\times 7}$

$7x$
=
70

 $\xrightarrow{+10}$

$7x + 10$
=
80

$\xleftarrow{\div 7} \quad \xleftarrow{-10}$

(7)

x
=
10

 $\xrightarrow{\times 8}$

$8x$
=
80

 $\xrightarrow{+8}$

$8x + 8$
=
88

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

(3)

x
=
3

 $\xrightarrow{\times 7}$

$7x$
=
21

 $\xrightarrow{+4}$

$7x + 4$
=
25

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

(8)

x
=
5

 $\xrightarrow{\times 2}$

$2x$
=
10

 $\xrightarrow{+9}$

$2x + 9$
=
19

$\xleftarrow{\div 2} \quad \xleftarrow{-9}$

(4)

x
=
7

 $\xrightarrow{\times 6}$

$6x$
=
42

 $\xrightarrow{+5}$

$6x + 5$
=
47

$\xleftarrow{\div 6} \quad \xleftarrow{-5}$

(9)

x
=
3

 $\xrightarrow{\times 10}$

$10x$
=
30

 $\xrightarrow{+4}$

$10x + 4$
=
34

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

(5)

x
=
8

 $\xrightarrow{\times 2}$

$2x$
=
16

 $\xrightarrow{+4}$

$2x + 4$
=
20

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

(10)

x
=
8

 $\xrightarrow{\times 7}$

$7x$
=
56

 $\xrightarrow{+5}$

$7x + 5$
=
61

$\xleftarrow{\div 7} \quad \xleftarrow{-5}$

(11)

x
=
9

 $\xrightarrow{\times 4}$

$4x$
=
36

 $\xrightarrow{+8}$

$4x + 8$
=
44

$\xleftarrow{\div 4}$ $\xleftarrow{-8}$

(16)

x
=
10

 $\xrightarrow{\times 5}$

$5x$
=
50

 $\xrightarrow{+7}$

$5x + 7$
=
57

$\xleftarrow{\div 5}$ $\xleftarrow{-7}$

(12)

x
=
3

 $\xrightarrow{\times 4}$

$4x$
=
12

 $\xrightarrow{+8}$

$4x + 8$
=
20

$\xleftarrow{\div 4}$ $\xleftarrow{-8}$

(17)

x
=
3

 $\xrightarrow{\times 5}$

$5x$
=
15

 $\xrightarrow{+2}$

$5x + 2$
=
17

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

(13)

x
=
7

 $\xrightarrow{\times 6}$

$6x$
=
42

 $\xrightarrow{+8}$

$6x + 8$
=
50

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

(18)

x
=
6

 $\xrightarrow{\times 2}$

$2x$
=
12

 $\xrightarrow{+6}$

$2x + 6$
=
18

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

(14)

x
=
3

 $\xrightarrow{\times 6}$

$6x$
=
18

 $\xrightarrow{+5}$

$6x + 5$
=
23

$\xleftarrow{\div 6}$ $\xleftarrow{-5}$

(19)

x
=
3

 $\xrightarrow{\times 10}$

$10x$
=
30

 $\xrightarrow{+5}$

$10x + 5$
=
35

$\xleftarrow{\div 10}$ $\xleftarrow{-5}$

(15)

x
=
5

 $\xrightarrow{\times 10}$

$10x$
=
50

 $\xrightarrow{+10}$

$10x + 10$
=
60

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

(20)

x
=
6

 $\xrightarrow{\times 6}$

$6x$
=
36

 $\xrightarrow{+4}$

$6x + 4$
=
40

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