

Name: _____

Date: _____

2-step backtracking: Answers

(1)

x
=
3

 $\xrightarrow{\times 9}$

$9x$
=
27

 $\xrightarrow{+8}$

$9x + 8$
=
35

$\xleftarrow{\div 9}$ $\xleftarrow{-8}$

(6)

x
=
4

 $\xrightarrow{\times 10}$

$10x$
=
40

 $\xrightarrow{+9}$

$10x + 9$
=
49

$\xleftarrow{\div 10}$ $\xleftarrow{-9}$

(2)

x
=
7

 $\xrightarrow{\times 4}$

$4x$
=
28

 $\xrightarrow{+3}$

$4x + 3$
=
31

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

(7)

x
=
7

 $\xrightarrow{\times 7}$

$7x$
=
49

 $\xrightarrow{+6}$

$7x + 6$
=
55

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

(3)

x
=
5

 $\xrightarrow{\times 4}$

$4x$
=
20

 $\xrightarrow{+7}$

$4x + 7$
=
27

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

(8)

x
=
5

 $\xrightarrow{\times 5}$

$5x$
=
25

 $\xrightarrow{+4}$

$5x + 4$
=
29

$\xleftarrow{\div 5}$ $\xleftarrow{-4}$

(4)

x
=
5

 $\xrightarrow{\times 5}$

$5x$
=
25

 $\xrightarrow{+3}$

$5x + 3$
=
28

$\xleftarrow{\div 5}$ $\xleftarrow{-3}$

(9)

x
=
4

 $\xrightarrow{\times 5}$

$5x$
=
20

 $\xrightarrow{+10}$

$5x + 10$
=
30

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

(5)

x
=
4

 $\xrightarrow{\times 10}$

$10x$
=
40

 $\xrightarrow{+3}$

$10x + 3$
=
43

$\xleftarrow{\div 10}$ $\xleftarrow{-3}$

(10)

x
=
10

 $\xrightarrow{\times 7}$

$7x$
=
70

 $\xrightarrow{+8}$

$7x + 8$
=
78

$\xleftarrow{\div 7}$ $\xleftarrow{-8}$

(11)

x
=
3

 $\xrightarrow{\times 3}$

$3x$
=
9

 $\xrightarrow{+10}$

$3x + 10$
=
19

$\xleftarrow{\div 3} \quad \xleftarrow{-10}$

(16)

x
=
8

 $\xrightarrow{\times 2}$

$2x$
=
16

 $\xrightarrow{+5}$

$2x + 5$
=
21

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

(12)

x
=
4

 $\xrightarrow{\times 4}$

$4x$
=
16

 $\xrightarrow{+2}$

$4x + 2$
=
18

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

(17)

x
=
2

 $\xrightarrow{\times 8}$

$8x$
=
16

 $\xrightarrow{+6}$

$8x + 6$
=
22

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

(13)

x
=
8

 $\xrightarrow{\times 7}$

$7x$
=
56

 $\xrightarrow{+7}$

$7x + 7$
=
63

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

(18)

x
=
10

 $\xrightarrow{\times 4}$

$4x$
=
40

 $\xrightarrow{+8}$

$4x + 8$
=
48

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

(14)

x
=
4

 $\xrightarrow{\times 5}$

$5x$
=
20

 $\xrightarrow{+9}$

$5x + 9$
=
29

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

(19)

x
=
6

 $\xrightarrow{\times 3}$

$3x$
=
18

 $\xrightarrow{+6}$

$3x + 6$
=
24

$\xleftarrow{\div 3} \quad \xleftarrow{-6}$

(15)

x
=
8

 $\xrightarrow{\times 7}$

$7x$
=
56

 $\xrightarrow{+8}$

$7x + 8$
=
64

$\xleftarrow{\div 7} \quad \xleftarrow{-8}$

(20)

x
=
9

 $\xrightarrow{\times 5}$

$5x$
=
45

 $\xrightarrow{+10}$

$5x + 10$
=
55

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