

Name: _____

Date: _____

2-step backtracking: Answers

(1)

x
=
12

 $\xrightarrow{-9}$

$x - 9$
=
3

 $\xrightarrow{\times 9}$

$9(x - 9)$
=
27

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

(6)

x
=
13

 $\xrightarrow{-5}$

$x - 5$
=
8

 $\xrightarrow{\times 9}$

$9(x - 5)$
=
72

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

(2)

x
=
12

 $\xrightarrow{-8}$

$x - 8$
=
4

 $\xrightarrow{\times 10}$

$10(x - 8)$
=
40

$\xleftarrow{+8}$ $\xleftarrow{\div 10}$

(7)

x
=
12

 $\xrightarrow{-5}$

$x - 5$
=
7

 $\xrightarrow{\times 9}$

$9(x - 5)$
=
63

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

(3)

x
=
3

 $\xrightarrow{-1}$

$x - 1$
=
2

 $\xrightarrow{\times 7}$

$7(x - 1)$
=
14

$\xleftarrow{+1}$ $\xleftarrow{\div 7}$

(8)

x
=
15

 $\xrightarrow{-8}$

$x - 8$
=
7

 $\xrightarrow{\times 4}$

$4(x - 8)$
=
28

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

(4)

x
=
10

 $\xrightarrow{-9}$

$x - 9$
=
1

 $\xrightarrow{\times 4}$

$4(x - 9)$
=
4

$\xleftarrow{+9}$ $\xleftarrow{\div 4}$

(9)

x
=
15

 $\xrightarrow{-5}$

$x - 5$
=
10

 $\xrightarrow{\times 10}$

$10(x - 5)$
=
100

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

(5)

x
=
4

 $\xrightarrow{-3}$

$x - 3$
=
1

 $\xrightarrow{\times 8}$

$8(x - 3)$
=
8

$\xleftarrow{+3}$ $\xleftarrow{\div 8}$

(10)

x
=
17

 $\xrightarrow{-10}$

$x - 10$
=
7

 $\xrightarrow{\times 9}$

$9(x - 10)$
=
63

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

(11)

x
=
9

 $\xrightarrow{-7}$

$x - 7$
=
2

 $\xrightarrow{\times 8}$

$8(x - 7)$
=
16

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

(16)

x
=
8

 $\xrightarrow{-2}$

$x - 2$
=
6

 $\xrightarrow{\times 5}$

$5(x - 2)$
=
30

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

(12)

x
=
14

 $\xrightarrow{-7}$

$x - 7$
=
7

 $\xrightarrow{\times 6}$

$6(x - 7)$
=
42

$\xleftarrow{+7} \quad \xleftarrow{\div 6}$

(17)

x
=
5

 $\xrightarrow{-1}$

$x - 1$
=
4

 $\xrightarrow{\times 7}$

$7(x - 1)$
=
28

$\xleftarrow{+1} \quad \xleftarrow{\div 7}$

(13)

x
=
15

 $\xrightarrow{-10}$

$x - 10$
=
5

 $\xrightarrow{\times 8}$

$8(x - 10)$
=
40

$\xleftarrow{+10} \quad \xleftarrow{\div 8}$

(18)

x
=
3

 $\xrightarrow{-2}$

$x - 2$
=
1

 $\xrightarrow{\times 2}$

$2(x - 2)$
=
2

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

(14)

x
=
4

 $\xrightarrow{-3}$

$x - 3$
=
1

 $\xrightarrow{\times 2}$

$2(x - 3)$
=
2

$\xleftarrow{+3} \quad \xleftarrow{\div 2}$

(19)

x
=
19

 $\xrightarrow{-9}$

$x - 9$
=
10

 $\xrightarrow{\times 2}$

$2(x - 9)$
=
20

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

(15)

x
=
16

 $\xrightarrow{-8}$

$x - 8$
=
8

 $\xrightarrow{\times 4}$

$4(x - 8)$
=
32

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

(20)

x
=
13

 $\xrightarrow{-8}$

$x - 8$
=
5

 $\xrightarrow{\times 3}$

$3(x - 8)$
=
15

$\xleftarrow{+8} \quad \xleftarrow{\div 3}$