

Name: _____

Date: _____

2-step backtracking: Answers

(1)

x
=
9

 $\xrightarrow{+7}$

$x + 7$
=
16

 $\xrightarrow{\times 4}$

$4(x + 7)$
=
64

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

(6)

x
=
7

 $\xrightarrow{+5}$

$x + 5$
=
12

 $\xrightarrow{\times 1}$

$1(x + 5)$
=
12

$\xleftarrow{-5}$ $\xleftarrow{\div 1}$

(2)

x
=
4

 $\xrightarrow{+8}$

$x + 8$
=
12

 $\xrightarrow{\times 8}$

$8(x + 8)$
=
96

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

(7)

x
=
6

 $\xrightarrow{+2}$

$x + 2$
=
8

 $\xrightarrow{\times 6}$

$6(x + 2)$
=
48

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

(3)

x
=
1

 $\xrightarrow{+8}$

$x + 8$
=
9

 $\xrightarrow{\times 8}$

$8(x + 8)$
=
72

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

(8)

x
=
1

 $\xrightarrow{+7}$

$x + 7$
=
8

 $\xrightarrow{\times 1}$

$1(x + 7)$
=
8

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

(4)

x
=
8

 $\xrightarrow{+1}$

$x + 1$
=
9

 $\xrightarrow{\times 8}$

$8(x + 1)$
=
72

$\xleftarrow{-1}$ $\xleftarrow{\div 8}$

(9)

x
=
6

 $\xrightarrow{+8}$

$x + 8$
=
14

 $\xrightarrow{\times 9}$

$9(x + 8)$
=
126

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

(5)

x
=
6

 $\xrightarrow{+6}$

$x + 6$
=
12

 $\xrightarrow{\times 3}$

$3(x + 6)$
=
36

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

(10)

x
=
9

 $\xrightarrow{+8}$

$x + 8$
=
17

 $\xrightarrow{\times 9}$

$9(x + 8)$
=
153

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

(11)

x
=
7

 $\xrightarrow{+2}$

$x + 2$
=
9

 $\xrightarrow{\times 9}$

$9(x + 2)$
=
81

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

(16)

x
=
9

 $\xrightarrow{+1}$

$x + 1$
=
10

 $\xrightarrow{\times 1}$

$1(x + 1)$
=
10

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

(12)

x
=
1

 $\xrightarrow{+9}$

$x + 9$
=
10

 $\xrightarrow{\times 6}$

$6(x + 9)$
=
60

$\xleftarrow{-9} \quad \xleftarrow{\div 6}$

(17)

x
=
3

 $\xrightarrow{+9}$

$x + 9$
=
12

 $\xrightarrow{\times 10}$

$10(x + 9)$
=
120

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

(13)

x
=
9

 $\xrightarrow{+8}$

$x + 8$
=
17

 $\xrightarrow{\times 8}$

$8(x + 8)$
=
136

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

(18)

x
=
4

 $\xrightarrow{+6}$

$x + 6$
=
10

 $\xrightarrow{\times 7}$

$7(x + 6)$
=
70

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

(14)

x
=
1

 $\xrightarrow{+7}$

$x + 7$
=
8

 $\xrightarrow{\times 8}$

$8(x + 7)$
=
64

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

(19)

x
=
6

 $\xrightarrow{+10}$

$x + 10$
=
16

 $\xrightarrow{\times 8}$

$8(x + 10)$
=
128

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

(15)

x
=
8

 $\xrightarrow{+2}$

$x + 2$
=
10

 $\xrightarrow{\times 6}$

$6(x + 2)$
=
60

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

(20)

x
=
2

 $\xrightarrow{+1}$

$x + 1$
=
3

 $\xrightarrow{\times 10}$

$10(x + 1)$
=
30

$\xleftarrow{-1} \quad \xleftarrow{\div 10}$