

Name: \_\_\_\_\_

Date: \_\_\_\_\_

2-step backtracking: Answers

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(1)

$x$
=
9

 $\xrightarrow{\times 4}$ 

$4x$
=
36

 $\xrightarrow{-3}$ 

$4x - 3$
=
33

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

(6)

$x$
=
10

 $\xrightarrow{\times 2}$ 

$2x$
=
20

 $\xrightarrow{-2}$ 

$2x - 2$
=
18

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

(2)

$x$
=
2

 $\xrightarrow{\times 6}$ 

$6x$
=
12

 $\xrightarrow{-3}$ 

$6x - 3$
=
9

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

(7)

$x$
=
10

 $\xrightarrow{\times 7}$ 

$7x$
=
70

 $\xrightarrow{-10}$ 

$7x - 10$
=
60

$\xleftarrow{\div 7}$        $\xleftarrow{+10}$

(3)

$x$
=
7

 $\xrightarrow{\times 5}$ 

$5x$
=
35

 $\xrightarrow{-4}$ 

$5x - 4$
=
31

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

(8)

$x$
=
3

 $\xrightarrow{\times 5}$ 

$5x$
=
15

 $\xrightarrow{-8}$ 

$5x - 8$
=
7

$\xleftarrow{\div 5}$        $\xleftarrow{+8}$

(4)

$x$
=
9

 $\xrightarrow{\times 2}$ 

$2x$
=
18

 $\xrightarrow{-4}$ 

$2x - 4$
=
14

$\xleftarrow{\div 2}$        $\xleftarrow{+4}$

(9)

$x$
=
2

 $\xrightarrow{\times 3}$ 

$3x$
=
6

 $\xrightarrow{-3}$ 

$3x - 3$
=
3

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

(5)

$x$
=
10

 $\xrightarrow{\times 6}$ 

$6x$
=
60

 $\xrightarrow{-3}$ 

$6x - 3$
=
57

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

(10)

$x$
=
6

 $\xrightarrow{\times 10}$ 

$10x$
=
60

 $\xrightarrow{-6}$ 

$10x - 6$
=
54

$\xleftarrow{\div 10}$        $\xleftarrow{+6}$

(11)

$x$
=
2

 $\xrightarrow{\times 4}$ 

$4x$
=
8

 $\xrightarrow{-6}$ 

$4x - 6$
=
2

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

(16)

$x$
=
6

 $\xrightarrow{\times 8}$ 

$8x$
=
48

 $\xrightarrow{-2}$ 

$8x - 2$
=
46

$\xleftarrow{\div 8} \quad \xleftarrow{+2}$

(12)

$x$
=
6

 $\xrightarrow{\times 5}$ 

$5x$
=
30

 $\xrightarrow{-6}$ 

$5x - 6$
=
24

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

(17)

$x$
=
7

 $\xrightarrow{\times 7}$ 

$7x$
=
49

 $\xrightarrow{-10}$ 

$7x - 10$
=
39

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

(13)

$x$
=
4

 $\xrightarrow{\times 5}$ 

$5x$
=
20

 $\xrightarrow{-4}$ 

$5x - 4$
=
16

$\xleftarrow{\div 5} \quad \xleftarrow{+4}$

(18)

$x$
=
9

 $\xrightarrow{\times 6}$ 

$6x$
=
54

 $\xrightarrow{-2}$ 

$6x - 2$
=
52

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

(14)

$x$
=
4

 $\xrightarrow{\times 2}$ 

$2x$
=
8

 $\xrightarrow{-6}$ 

$2x - 6$
=
2

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

(19)

$x$
=
10

 $\xrightarrow{\times 4}$ 

$4x$
=
40

 $\xrightarrow{-9}$ 

$4x - 9$
=
31

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

(15)

$x$
=
10

 $\xrightarrow{\times 2}$ 

$2x$
=
20

 $\xrightarrow{-5}$ 

$2x - 5$
=
15

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

(20)

$x$
=
5

 $\xrightarrow{\times 8}$ 

$8x$
=
40

 $\xrightarrow{-5}$ 

$8x - 5$
=
35

$\xleftarrow{\div 8} \quad \xleftarrow{+5}$