

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

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

2-step backtracking: Answers

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(1)

$x$
=
35

 $\xrightarrow{\div 7}$ 

$\frac{x}{7}$
=
5

 $\xrightarrow{+4}$ 

$\frac{x}{7} + 4$
=
9

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

(6)

$x$
=
6

 $\xrightarrow{+8}$ 

$x + 8$
=
14

 $\xrightarrow{\times 1}$ 

$1(x + 8)$
=
14

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

(2)

$x$
=
12

 $\xrightarrow{-2}$ 

$x - 2$
=
10

 $\xrightarrow{\div 10}$ 

$\frac{(x-2)}{10}$
=
1

$\xleftarrow{+2} \quad \xleftarrow{\times 10}$

(7)

$x$
=
81

 $\xrightarrow{\div 9}$ 

$\frac{x}{9}$
=
9

 $\xrightarrow{-5}$ 

$\frac{x}{9} - 5$
=
4

$\xleftarrow{\times 9} \quad \xleftarrow{+5}$

(3)

$x$
=
5

 $\xrightarrow{+9}$ 

$x + 9$
=
14

 $\xrightarrow{\div 7}$ 

$\frac{(x+9)}{7}$
=
2

$\xleftarrow{-9} \quad \xleftarrow{\times 7}$

(8)

$x$
=
4

 $\xrightarrow{+8}$ 

$x + 8$
=
12

 $\xrightarrow{\times 2}$ 

$2(x + 8)$
=
24

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

(4)

$x$
=
64

 $\xrightarrow{-8}$ 

$x - 8$
=
56

 $\xrightarrow{\div 8}$ 

$\frac{(x-8)}{8}$
=
7

$\xleftarrow{+8} \quad \xleftarrow{\times 8}$

(9)

$x$
=
19

 $\xrightarrow{-1}$ 

$x - 1$
=
18

 $\xrightarrow{\div 2}$ 

$\frac{(x-1)}{2}$
=
9

$\xleftarrow{+1} \quad \xleftarrow{\times 2}$

(5)

$x$
=
10

 $\xrightarrow{+10}$ 

$x + 10$
=
20

 $\xrightarrow{\div 10}$ 

$\frac{(x+10)}{10}$
=
2

$\xleftarrow{-10} \quad \xleftarrow{\times 10}$

(10)

$x$
=
13

 $\xrightarrow{+3}$ 

$x + 3$
=
16

 $\xrightarrow{\div 2}$ 

$\frac{(x+3)}{2}$
=
8

$\xleftarrow{-3} \quad \xleftarrow{\times 2}$