

Name: _____

Date: _____

2-step backtracking: Questions

(1)

x

$=$

$\xrightarrow{\times 8}$

$=$

$\xrightarrow{-10}$

$=$

30

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(6)

x

$=$

$\xrightarrow{-9}$

$=$

$\xrightarrow{\div 4}$

$=$

8

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(2)

x

$=$

$\xrightarrow{-9}$

$=$

$\xrightarrow{\times 7}$

$=$

21

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(7)

x

$=$

$\xrightarrow{+10}$

$=$

$\xrightarrow{\div 5}$

$=$

8

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(3)

x

$=$

$\xrightarrow{\div 9}$

$=$

$\xrightarrow{-7}$

$=$

2

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(8)

x

$=$

$\xrightarrow{\times 10}$

$=$

$\xrightarrow{+3}$

$=$

83

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(4)

x

$=$

$\xrightarrow{+3}$

$=$

$\xrightarrow{\times 2}$

$=$

20

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(9)

x

$=$

$\xrightarrow{+4}$

$=$

$\xrightarrow{\times 7}$

$=$

56

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(5)

x

$=$

$\xrightarrow{-8}$

$=$

$\xrightarrow{\div 9}$

$=$

3

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$

(10)

x

$=$

$\xrightarrow{\div 6}$

$=$

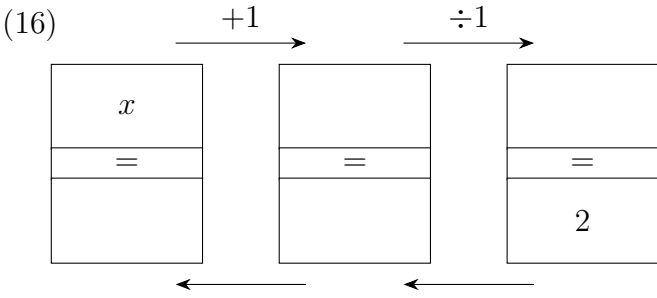
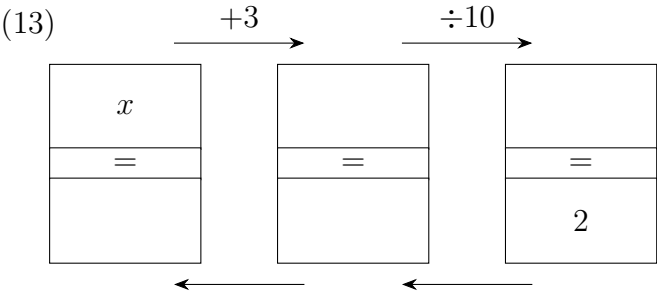
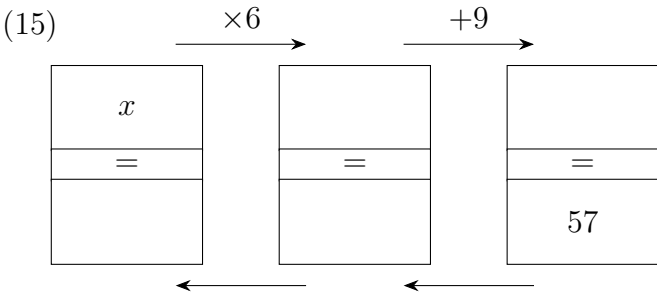
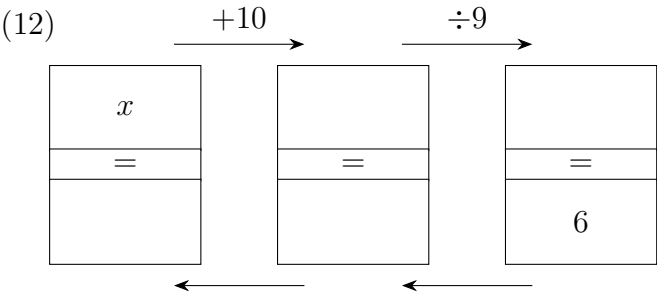
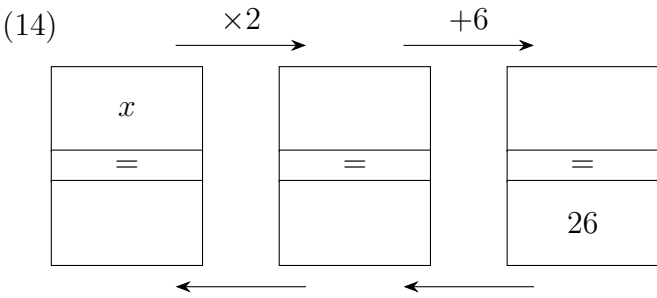
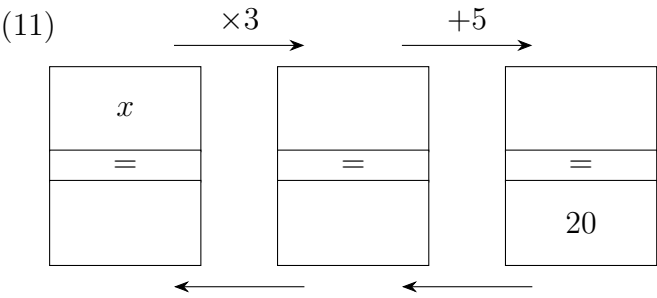
$\xrightarrow{+1}$

$=$

6

$\xleftarrow{\hspace{1.5cm}}$

$\xleftarrow{\hspace{1.5cm}}$



Name: _____

Date: _____

2-step backtracking: Answers

(1)

x
=
5

 $\xrightarrow{\times 8}$

$8x$
=
40

 $\xrightarrow{-10}$

$8x - 10$
=
30

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

(6)

x
=
41

 $\xrightarrow{-9}$

$x - 9$
=
32

 $\xrightarrow{\div 4}$

$\frac{(x-9)}{4}$
=
8

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

(2)

x
=
12

 $\xrightarrow{-9}$

$x - 9$
=
3

 $\xrightarrow{\times 7}$

$7(x - 9)$
=
21

$\xleftarrow{+9} \quad \xleftarrow{\div 7}$

(7)

x
=
30

 $\xrightarrow{+10}$

$x + 10$
=
40

 $\xrightarrow{\div 5}$

$\frac{(x+10)}{5}$
=
8

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

(3)

x
=
81

 $\xrightarrow{\div 9}$

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

 $\xrightarrow{-7}$

$\frac{x}{9} - 7$
=
2

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

(8)

x
=
8

 $\xrightarrow{\times 10}$

$10x$
=
80

 $\xrightarrow{+3}$

$10x + 3$
=
83

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

(4)

x
=
7

 $\xrightarrow{+3}$

$x + 3$
=
10

 $\xrightarrow{\times 2}$

$2(x + 3)$
=
20

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

(9)

x
=
4

 $\xrightarrow{+4}$

$x + 4$
=
8

 $\xrightarrow{\times 7}$

$7(x + 4)$
=
56

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

(5)

x
=
35

 $\xrightarrow{-8}$

$x - 8$
=
27

 $\xrightarrow{\div 9}$

$\frac{(x-8)}{9}$
=
3

$\xleftarrow{+8} \quad \xleftarrow{\times 9}$

(10)

x
=
30

 $\xrightarrow{\div 6}$

$\frac{x}{6}$
=
5

 $\xrightarrow{+1}$

$\frac{x}{6} + 1$
=
6

$\xleftarrow{\times 6} \quad \xleftarrow{-1}$

