2-step backtracking: Answers

(1)

$$\xrightarrow{\div 2} \qquad \xrightarrow{+1}$$

x	$\frac{x}{2}$	$\frac{x}{2}+1$
=	=	=
6	3	4

$$\xleftarrow{\times 2} \qquad \xleftarrow{-1}$$

(6)

$$\xrightarrow{\div 6} \qquad \xrightarrow{+10}$$

x	$\frac{x}{6}$	$\frac{x}{6}+10$
=	=	=
42	7	17

$$\xleftarrow{\times 6} \qquad \xleftarrow{-10}$$

(2)

$$\xrightarrow{\div 9} \qquad \xrightarrow{+4}$$

x	$\frac{x}{9}$	$\frac{x}{9}+4$
=	=	=
45	5	9

$$\xleftarrow{\times 9} \qquad \xleftarrow{-4}$$

(7)

$$\xrightarrow{\div 5} \qquad \xrightarrow{+3}$$

x	$\frac{x}{5}$	$\frac{x}{5}+3$
=	=	=
50	10	13

$$\xleftarrow{\times 5} \qquad \xleftarrow{-3}$$

(3)

$$\xrightarrow{\div 7} \qquad \xrightarrow{+4}$$

x	$\frac{x}{7}$	$\frac{x}{7}+4$
=	=	=
63	9	13

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

(8)

$$\xrightarrow{\div 4} \qquad \xrightarrow{+4}$$

x	$\frac{x}{4}$	$\frac{x}{4}+4$
=	=	=
20	5	9

$$\xleftarrow{\times 4} \qquad \xleftarrow{-4}$$

(4)

$$\xrightarrow{\div 4} \qquad \xrightarrow{+5}$$

x	$\frac{x}{4}$	$\frac{x}{4}+5$
=	=	=
16	4	9

$$\xleftarrow{\times 4} \qquad \xleftarrow{-5}$$

(9)

$$\xrightarrow{\div 7} \qquad \xrightarrow{+4}$$

x	$\frac{x}{7}$	$\frac{x}{7}+4$
=	=	=
63	9	13

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

(5)

$$\xrightarrow{\div 5} \qquad \xrightarrow{+1}$$

x	$\frac{x}{5}$	$\frac{x}{5}+1$
=	=	=
45	9	10

$$\xleftarrow{\times 5} \qquad \xleftarrow{-1}$$

(10)

$$\xrightarrow{\div 10} \qquad \xrightarrow{+4}$$

x	$\frac{x}{10}$	$\frac{x}{10}+4$
=	=	=
40	4	8

$$\xleftarrow{\times 10} \qquad \xleftarrow{-4}$$

1

(11)

$$\xrightarrow{\div 2}\qquad\xrightarrow{+8}$$

x	$\frac{x}{2}$	$\frac{x}{2}+8$
=	=	=
20	10	18

$$\xleftarrow{\times 2}\qquad\xleftarrow{-8}$$

(16)

$$\xrightarrow{\div 9}\qquad\xrightarrow{+10}$$

x	$\frac{x}{9}$	$\frac{x}{9}+10$
=	=	=
18	2	12

$$\xleftarrow{\times 9}\qquad\xleftarrow{-10}$$

(12)

$$\xrightarrow{\div 4}\qquad\xrightarrow{+4}$$

x	$\frac{x}{4}$	$\frac{x}{4}+4$
=	=	=
16	4	8

$$\xleftarrow{\times 4}\qquad\xleftarrow{-4}$$

(17)

$$\xrightarrow{\div 9}\qquad\xrightarrow{+2}$$

x	$\frac{x}{9}$	$\frac{x}{9}+2$
=	=	=
72	8	10

$$\xleftarrow{\times 9}\qquad\xleftarrow{-2}$$

(13)

$$\xrightarrow{\div 4}\qquad\xrightarrow{+4}$$

x	$\frac{x}{4}$	$\frac{x}{4}+4$
=	=	=
28	7	11

$$\xleftarrow{\times 4}\qquad\xleftarrow{-4}$$

(18)

$$\xrightarrow{\div 10}\qquad\xrightarrow{+4}$$

x	$\frac{x}{10}$	$\frac{x}{10}+4$
=	=	=
60	6	10

$$\xleftarrow{\times 10}\qquad\xleftarrow{-4}$$

(14)

$$\xrightarrow{\div 10}\qquad\xrightarrow{+3}$$

x	$\frac{x}{10}$	$\frac{x}{10}+3$
=	=	=
50	5	8

$$\xleftarrow{\times 10}\qquad\xleftarrow{-3}$$

(19)

$$\xrightarrow{\div 6}\qquad\xrightarrow{+2}$$

x	$\frac{x}{6}$	$\frac{x}{6}+2$
=	=	=
6	1	3

$$\xleftarrow{\times 6}\qquad\xleftarrow{-2}$$

(15)

$$\xrightarrow{\div 10}\qquad\xrightarrow{+2}$$

x	$\frac{x}{10}$	$\frac{x}{10}+2$
=	=	=
100	10	12

$$\xleftarrow{\times 10}\qquad\xleftarrow{-2}$$

(20)

$$\xrightarrow{\div 2}\qquad\xrightarrow{+5}$$

x	$\frac{x}{2}$	$\frac{x}{2}+5$
=	=	=
10	5	10

$$\xleftarrow{\times 2}\qquad\xleftarrow{-5}$$