

比例式

____年 組 名前

____/10

■ 次の比例式を解きなさい。

① $3:2 = 3:(x-8)$

$x =$

② $5:6 = 8:(x-7)$

$x =$

③ $(x-5):9 = 1:2$

$x =$

④ $7:(n-8) = 5:4$

$n =$

⑤ $1:(7-x) = 7:8$

$x =$

⑥ $8:(x-3) = 6:5$

$x =$

⑦ $1:(5-x) = 3:2$

$x =$

⑧ $9:(x-1) = 1:2$

$x =$

⑨ $2:1 = 7:(b-6)$

$b =$

⑩ $3:4 = 6:(y+4)$

$y =$

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① $3:2 = 3:(x-8)$

$$3x - 24 = 6$$

$$3x = 30$$

$$x = 10$$

② $5:6 = 8:(x-7)$

$$5x - 35 = 48$$

$$5x = 83$$

$$x = \frac{83}{5}$$

③ $(x-5):9 = 1:2$

$$2x - 10 = 9$$

$$2x = 19$$

$$x = \frac{19}{2}$$

④ $7:(n-8) = 5:4$

$$5n - 40 = 28$$

$$5n = 68$$

$$n = \frac{68}{5}$$

⑤ $1:(7-x) = 7:8$

$$49 - 7x = 8$$

$$-7x = -41$$

$$x = \frac{41}{7}$$

⑥ $8:(x-3) = 6:5$

$$6x - 18 = 40$$

$$6x = 58$$

$$x = \frac{29}{3}$$

⑦ $1:(5-x) = 3:2$

$$15 - 3x = 2$$

$$-3x = -13$$

$$x = \frac{13}{3}$$

⑧ $9:(x-1) = 1:2$

$$x - 1 = 18$$

$$x = 19$$

$$x = 19$$

⑨ $2:1 = 7:(b-6)$

$$2b - 12 = 7$$

$$2b = 19$$

$$b = \frac{19}{2}$$

⑩ $3:4 = 6:(y+4)$

$$3y + 12 = 24$$

$$3y = 12$$

$$y = 4$$