

# 比例式

\_\_\_\_年 組 名前

/10

■ 次の比例式を解きなさい。

①  $6:7 = 8:(x-1)$

$x =$

②  $7:(x+2) = 4:3$

$x =$

③  $(x-8):9 = 9:8$

$x =$

④  $1:2 = (5-x):9$

$x =$

⑤  $(x-6):4 = 3:2$

$x =$

⑥  $(3-x):2 = 1:2$

$x =$

⑦  $1:2 = 1:(y-1)$

$y =$

⑧  $8:7 = 2:(8-a)$

$a =$

⑨  $1:2 = 7:(y-9)$

$y =$

⑩  $(7-t):6 = 3:4$

$t =$

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①  $6:7 = 8:(x-1)$

$$6x - 6 = 56$$

$$6x = 62$$

$$x = \frac{31}{3}$$

②  $7:(x+2) = 4:3$

$$4x + 8 = 21$$

$$4x = 13$$

$$x = \frac{13}{4}$$

③  $(x-8):9 = 9:8$

$$8x - 64 = 81$$

$$8x = 145$$

$$x = \frac{145}{8}$$

④  $1:2 = (5-x):9$

$$10 - 2x = 9$$

$$-2x = -1$$

$$x = \frac{1}{2}$$

⑤  $(x-6):4 = 3:2$

$$2x - 12 = 12$$

$$2x = 24$$

$$x = 12$$

⑥  $(3-x):2 = 1:2$

$$6 - 2x = 2$$

$$-2x = -4$$

$$x = 2$$

⑦  $1:2 = 1:(y-1)$

$$y - 1 = 2$$

$$y = 3$$

$$y = 3$$

⑧  $8:7 = 2:(8-a)$

$$64 - 8a = 14$$

$$-8a = -50$$

$$a = \frac{25}{4}$$

⑨  $1:2 = 7:(y-9)$

$$y - 9 = 14$$

$$y = 23$$

$$y = 23$$

⑩  $(7-t):6 = 3:4$

$$28 - 4t = 18$$

$$-4t = -10$$

$$t = \frac{5}{2}$$