

比例式

____年 組 名前

____/10

■ 次の比例式を解きなさい。

① $(x-7):3 = 1:2$

$x =$

② $9:(x+9) = 1:2$

$x =$

③ $(3+x):6 = 6:5$

$x =$

④ $(y-2):4 = 2:1$

$y =$

⑤ $5:4 = 8:(x+1)$

$x =$

⑥ $5:(a-4) = 2:3$

$a =$

⑦ $7:8 = 6:(8-x)$

$x =$

⑧ $4:5 = (6-x):7$

$x =$

⑨ $7:6 = (8-x):4$

$x =$

⑩ $1:2 = (y-5):9$

$y =$

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① $(x-7):3 = 1:2$

$$2x - 14 = 3$$

$$2x = 17$$

$$x = \frac{17}{2}$$

⑥ $5:(a-4) = 2:3$

$$2a - 8 = 15$$

$$2a = 23$$

$$a = \frac{23}{2}$$

② $9:(x+9) = 1:2$

$$x + 9 = 18$$

$$x = 9$$

$$x = 9$$

⑦ $7:8 = 6:(8-x)$

$$56 - 7x = 48$$

$$-7x = -8$$

$$x = \frac{8}{7}$$

③ $(3+x):6 = 6:5$

$$15 + 5x = 36$$

$$5x = 21$$

$$x = \frac{21}{5}$$

⑧ $4:5 = (6-x):7$

$$30 - 5x = 28$$

$$-5x = -2$$

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

④ $(y-2):4 = 2:1$

$$y - 2 = 8$$

$$y = 10$$

$$y = 10$$

⑨ $7:6 = (8-x):4$

$$48 - 6x = 28$$

$$-6x = -20$$

$$x = \frac{10}{3}$$

⑤ $5:4 = 8:(x+1)$

$$5x + 5 = 32$$

$$5x = 27$$

$$x = \frac{27}{5}$$

⑩ $1:2 = (y-5):9$

$$2y - 10 = 9$$

$$2y = 19$$

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