

1 次の比例式を解きなさい。

①  $(x-1) : 16 = 3 : 8$

②  $40 : (x+7) = 5 : 2$

③  $2 : 5 = (x+2) : 15$

④  $6 : 12 = 3 : (x-1)$

⑤  $(x-3) : 9 = 4 : 6$

⑥  $3 : (x-3) = 6 : 4$

⑦  $30 : 12 = (x-4) : 2$

⑧  $12 : 4 = 3 : (x-7)$

1 次の比例式を解きなさい。

$$\textcircled{1} \quad (x-1) : 16 = 3 : 8$$

$$(x-1) \times 8 = 16 \times 3$$

$$8x - 8 = 48$$

$$8x = 48 + 8$$

$$8x = 56$$

$$x = 7$$

$$\textcircled{2} \quad 40 : (x+7) = 5 : 2$$

$$40 \times 2 = (x+7) \times 5$$

$$80 = 5x + 35$$

$$5x = 80 - 35$$

$$5x = 45$$

$$x = 9$$

$$\textcircled{3} \quad 2 : 5 = (x+2) : 15$$

$$2 \times 15 = 5 \times (x+2)$$

$$30 = 5x + 10$$

$$5x = 30 - 10$$

$$5x = 20$$

$$x = 4$$

$$\textcircled{4} \quad 6 : 12 = 3 : (x-1)$$

$$6 \times (x-1) = 12 \times 3$$

$$6x - 6 = 36$$

$$6x = 36 + 6$$

$$6x = 42$$

$$x = 7$$

$$\textcircled{5} \quad (x-3) : 9 = 4 : 6$$

$$(x-3) \times 6 = 9 \times 4$$

$$6x - 18 = 36$$

$$6x = 36 + 18$$

$$6x = 54$$

$$x = 9$$

$$\textcircled{6} \quad 3 : (x-3) = 6 : 4$$

$$3 \times 4 = (x-3) \times 6$$

$$12 = 6x - 18$$

$$6x = 12 + 18$$

$$6x = 30$$

$$x = 5$$

$$\textcircled{7} \quad 30 : 12 = (x-4) : 2$$

$$30 \times 2 = 12 \times (x-4)$$

$$60 = 12x - 48$$

$$12x = 60 + 48$$

$$12x = 108$$

$$x = 9$$

$$\textcircled{8} \quad 12 : 4 = 3 : (x-7)$$

$$12 \times (x-7) = 4 \times 3$$

$$12x - 84 = 12$$

$$12x = 12 + 84$$

$$12x = 96$$

$$x = 8$$