

1 次の比例式を解きなさい。

①  $(x-2) : 6 = 4 : 12$

②  $48 : (x+5) = 8 : 2$

③  $20 : 10 = (x-5) : 2$

④  $8 : 2 = 56 : (x+6)$

⑤  $(x+1) : 5 = 12 : 10$

⑥  $68 : (x+9) = 8 : 2$

⑦  $5 : 8 = (x+6) : 16$

⑧  $9 : 4 = 27 : (x+8)$

1 次の比例式を解きなさい。

$$\textcircled{1} \quad (x-2) : 6 = 4 : 12$$

$$(x-2) \times 12 = 6 \times 4$$

$$12x - 24 = 24$$

$$12x = 24 + 24$$

$$12x = 48$$

$$x = 4$$

$$\textcircled{2} \quad 48 : (x+5) = 8 : 2$$

$$48 \times 2 = (x+5) \times 8$$

$$96 = 8x + 40$$

$$8x = 96 - 40$$

$$8x = 56$$

$$x = 7$$

$$\textcircled{3} \quad 20 : 10 = (x-5) : 2$$

$$20 \times 2 = 10 \times (x-5)$$

$$40 = 10x - 50$$

$$10x = 40 + 50$$

$$10x = 90$$

$$x = 9$$

$$\textcircled{4} \quad 8 : 2 = 56 : (x+6)$$

$$8 \times (x+6) = 2 \times 56$$

$$8x + 48 = 112$$

$$8x = 112 - 48$$

$$8x = 64$$

$$x = 8$$

$$\textcircled{5} \quad (x+1) : 5 = 12 : 10$$

$$(x+1) \times 10 = 5 \times 12$$

$$10x + 10 = 60$$

$$10x = 60 - 10$$

$$10x = 50$$

$$x = 5$$

$$\textcircled{6} \quad 68 : (x+9) = 8 : 2$$

$$68 \times 2 = (x+9) \times 8$$

$$136 = 8x + 72$$

$$8x = 136 - 72$$

$$8x = 64$$

$$x = 8$$

$$\textcircled{7} \quad 5 : 8 = (x+6) : 16$$

$$5 \times 16 = 8 \times (x+6)$$

$$80 = 8x + 48$$

$$8x = 80 - 48$$

$$8x = 32$$

$$x = 4$$

$$\textcircled{8} \quad 9 : 4 = 27 : (x+8)$$

$$9 \times (x+8) = 4 \times 27$$

$$9x + 72 = 108$$

$$9x = 108 - 72$$

$$9x = 36$$

$$x = 4$$