

1 次の比例式を解きなさい。

① $(x+5) : 24 = 7 : 12$

② $3 : (x+7) = 5 : 20$

③ $2 : 7 = (x+8) : 56$

④ $9 : 12 = 6 : (x+1)$

⑤ $(x+2) : 6 = 15 : 9$

⑥ $6 : (x+3) = 7 : 14$

⑦ $2 : 5 = (x+6) : 25$

⑧ $8 : 3 = 32 : (x+4)$

1 次の比例式を解きなさい。

$$\textcircled{1} \quad (x+5) : 24 = 7 : 12$$

$$(x+5) \times 12 = 24 \times 7$$

$$12x + 60 = 168$$

$$12x = 168 - 60$$

$$12x = 108$$

$$x = 9$$

$$\textcircled{2} \quad 3 : (x+7) = 5 : 20$$

$$3 \times 20 = (x+7) \times 5$$

$$60 = 5x + 35$$

$$5x = 60 - 35$$

$$5x = 25$$

$$x = 5$$

$$\textcircled{3} \quad 2 : 7 = (x+8) : 56$$

$$2 \times 56 = 7 \times (x+8)$$

$$112 = 7x + 56$$

$$7x = 112 - 56$$

$$7x = 56$$

$$x = 8$$

$$\textcircled{4} \quad 9 : 12 = 6 : (x+1)$$

$$9 \times (x+1) = 12 \times 6$$

$$9x + 9 = 72$$

$$9x = 72 - 9$$

$$9x = 63$$

$$x = 7$$

$$\textcircled{5} \quad (x+2) : 6 = 15 : 9$$

$$(x+2) \times 9 = 6 \times 15$$

$$9x + 18 = 90$$

$$9x = 90 - 18$$

$$9x = 72$$

$$x = 8$$

$$\textcircled{6} \quad 6 : (x+3) = 7 : 14$$

$$6 \times 14 = (x+3) \times 7$$

$$84 = 7x + 21$$

$$7x = 84 - 21$$

$$7x = 63$$

$$x = 9$$

$$\textcircled{7} \quad 2 : 5 = (x+6) : 25$$

$$2 \times 25 = 5 \times (x+6)$$

$$50 = 5x + 30$$

$$5x = 50 - 30$$

$$5x = 20$$

$$x = 4$$

$$\textcircled{8} \quad 8 : 3 = 32 : (x+4)$$

$$8 \times (x+4) = 3 \times 32$$

$$8x + 32 = 96$$

$$8x = 96 - 32$$

$$8x = 64$$

$$x = 8$$