



一次方程式7
次の方程式を解きなさい。

(1) $2:1 = x:4$

$$x = 8$$

(2) $4:(x+3) = 8:x$

$$4x = 8x + 24$$

$$x = -6$$

(3) $3:5 = 6:(x+3)$

$$3(x+3) = 30$$

$$x+3 = 10$$

$$x = 7$$

(4) $(x+2):3 = 4:3$

$$3(x+2) = 12$$

$$x+2 = 4$$

$$x = 2$$

(5) $8:5 = (x-1):3$

$$5(x-1) = 24$$

$$5x-5 = 24$$

$$x = \frac{29}{5}$$

(6) $3:4 = (x-2):8$

$$4(x-2) = 24$$

$$x-2 = 6$$

$$x = 8$$

(7) $\frac{2}{3}x:2 = 5:6$

$$10 = 4x$$

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

(8) $(\frac{1}{2}x - 1):4 = \frac{1}{4}:6$

$$3x - 6 = 1$$

$$x = \frac{7}{3}$$

(9) $(x+3):9 = (3x+1):15$

$$9(3x+1) = 15(x+3)$$

$$27x+9 = 15x+45$$

$$12x = 36$$

$$x = 3$$

(10) $\frac{1}{3}(x+3): \frac{1}{2}(x-2) = 4:3$

$$x+3 = 2(x-2)$$

$$x+3 = 2x-4$$

$$-x = -7$$

$$x = 7$$

