

逆数をかけて、文字の係数を1にする練習

方程式で練習してみよう

$$(1) \frac{1}{2} a = 3$$

$$(2) -\frac{1}{2} a = 3$$

$$(3) \frac{4}{5} a = 8$$

$$(4) -\frac{4}{5} a = 8$$

$$(5) \frac{2}{5} a - 3 = \frac{1}{2}$$

『等式の変形』で練習してみよう []内の文字について解きなさい。

$$(1) \frac{1}{2} a = b \quad [a]$$

$$(2) -\frac{4}{5} a = b \quad [a]$$

$$(3) \frac{1}{2} a + 3 = b \quad [a]$$

$$(4) 2a - \frac{2}{3}b = 5c \quad [a]$$

$$(5) -2a + b = c \quad [a]$$

逆数をかけて、文字の係数を1にする練習

方程式で練習してみよう

$$(1) \frac{1}{2} a = 3$$

$$\frac{2}{1} \times \frac{1}{2} a = 3 \times \frac{2}{1}$$

$$a = 6$$

$$(2) -\frac{1}{2} a = 3$$

$$-\frac{2}{1} \times \left[-\frac{1}{2} a\right] = 3 \times \left[-\frac{2}{1}\right]$$

$$a = -6$$

$$(3) \frac{4}{5} a = 8$$

$$\frac{5}{4} \times \frac{4}{5} a = 8 \times \frac{5}{4}$$

$$a = 10$$

$$(4) -\frac{4}{5} a = 8$$

$$-\frac{5}{4} \times \left[-\frac{4}{5} a\right] = 8 \times \left[-\frac{5}{4}\right]$$

$$a = -10$$

$$(5) \frac{2}{5} a - 3 = \frac{1}{2}$$

$$\frac{5}{2} \times \frac{2}{5} a - \frac{5}{2} \times 3 = \frac{1}{2} \times \frac{5}{2}$$

$$a - \frac{15}{2} = \frac{5}{4}$$

$$a = \frac{5}{4} + \frac{15}{2}$$

$$a = \frac{5}{4} + \frac{30}{4}$$

$$a = \frac{35}{4}$$

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$$(1) \frac{1}{2} a = b \quad [a]$$

$$\frac{2}{1} \times \frac{1}{2} a = b \times \frac{2}{1}$$

$$a = 2b$$

$$(2) -\frac{4}{5} a = b \quad [a]$$

$$-\frac{5}{4} \times \left[-\frac{4}{5} a\right] = b \times \left[-\frac{5}{4}\right]$$

$$a = -\frac{5}{4} b$$

$$(3) \frac{1}{2} a + 3 = b \quad [a]$$

$$\frac{2}{1} \times \frac{1}{2} a + \frac{2}{1} \times 3 = b \times \frac{2}{1}$$

$$a + 6 = 2b$$

$$a = 2b - 6$$

$$(4) 2a - \frac{2}{3} b = 5c \quad [a]$$

$$\frac{1}{2} \times 2a - \frac{1}{2} \times \frac{2}{3} b = 5c \times \frac{1}{2}$$

$$a - \frac{1}{3} b = \frac{5}{2} c$$

$$a = \frac{1}{3} b + \frac{5}{2} c$$

$$(5) -2a + b = c \quad [a]$$

$$-\frac{1}{2} \times [-2a] + \left[-\frac{1}{2}\right] \times b = c \times \left[-\frac{1}{2}\right]$$

$$a - \frac{1}{2} b = -\frac{1}{2} c$$

$$a = \frac{1}{2} b - \frac{1}{2} c$$