

等式の変形

年 組 名前

/16

■ 次の式を[]で指定された文字について解きなさい。

① $a - 8 = 4b + c$ [b]

② $a - 7b + 3c = -9$ [c]

③ $xy - 5 = -z$ [x]

④ $\frac{a+b+c}{3} = 6$ [c]

⑤ $\frac{1}{8}a - b = -2$ [a]

⑥ $l = 2a + 2b$ [a]

⑦ $2s - t = -6$ [t]

⑧ $\frac{1}{3}abc = v$ [a]

⑨ $5(x+9) + y = z$ [x]

⑩ $a - 4b = 9$ [a]

⑪ $\frac{7s+t}{4} = -7$ [s]

⑫ $a = 3b - 8c$ [c]

⑬ $V = xy^2$ [x]

⑭ $xyz = 27$ [y]

⑮ $a - 3(b - c) = 6$ [c]

⑯ $x(y - 9) = -z$ [y]

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① $a - 8 = 4b + c$ [b]

$$b = \frac{a - c - 8}{4}$$

② $a - 7b + 3c = -9$ [c]

$$c = \frac{-a + 7b - 9}{3}$$

③ $xy - 5 = -z$ [x]

$$x = \frac{-z + 5}{y}$$

④ $\frac{a + b + c}{3} = 6$ [c]

$$c = -a - b + 18$$

⑤ $\frac{1}{8}a - b = -2$ [a]

$$a = 8b - 16$$

⑥ $l = 2a + 2b$ [a]

$$a = \frac{l - 2b}{2}$$

⑦ $2s - t = -6$ [t]

$$t = 2s + 6$$

⑧ $\frac{1}{3}abc = V$ [a]

$$a = \frac{3V}{bc}$$

⑨ $5(x + 9) + y = z$ [x]

$$x = \frac{-y + z - 45}{5}$$

⑩ $a - 4b = 9$ [a]

$$a = 4b + 9$$

⑪ $\frac{7s + t}{4} = -7$ [s]

$$s = \frac{-t - 28}{7}$$

⑫ $a = 3b - 8c$ [c]

$$c = \frac{-a + 3b}{8}$$

⑬ $V = xy^2$ [x]

$$x = \frac{V}{y^2}$$

⑭ $xyz = 27$ [y]

$$y = \frac{27}{xz}$$

⑮ $a - 3(b - c) = 6$ [c]

$$c = \frac{-a + 3b + 6}{3}$$

⑯ $x(y - 9) = -z$ [y]

$$y = \frac{9x - z}{x}$$