

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 $\ell = 2a + 2b$ [b]

② $2(x+y) = -z$ [y]

③ $st = 18$ [t]

④ $\frac{2x-y}{3} = -6$ [x]

⑤ $\frac{x+y+z}{3} = 1$ [x]

⑥ $a = 5b - 9c$ [c]

⑦ $\frac{1}{9}(a+b) = -8$ [b]

⑧ $\ell = 2\pi r$ [r]

⑨ $s + 5t = 8$ [t]

⑩ $9x - y = -6z$ [y]

⑪ $S = xy$ [y]

⑫ $a + 3b + 7c = -11$ [c]

⑬ $2(a-b) + c = 7$ [a]

⑭ $V = abc$ [c]

⑮ $\frac{1}{3}xyz = V$ [y]

⑯ $xy - 5 = -z$ [x]

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① $\ell = 2a + 2b$ [b]

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

② $2(x+y) = -z$ [y]

$$y = \frac{-2x - z}{2}$$

③ $st = 18$ [t]

$$t = \frac{18}{s}$$

④ $\frac{2x-y}{3} = -6$ [x]

$$x = \frac{y - 18}{2}$$

⑤ $\frac{x+y+z}{3} = 1$ [x]

$$x = -y - z + 3$$

⑥ $a = 5b - 9c$ [c]

$$c = \frac{-a + 5b}{9}$$

⑦ $\frac{1}{9}(a+b) = -8$ [b]

$$b = -a - 72$$

⑧ $\ell = 2\pi r$ [r]

$$r = \frac{\ell}{2\pi}$$

⑨ $s + 5t = 8$ [t]

$$t = \frac{-s + 8}{5}$$

⑩ $9x - y = -6z$ [y]

$$y = 9x + 6z$$

⑪ $S = xy$ [y]

$$y = \frac{S}{x}$$

⑫ $a + 3b + 7c = -11$ [c]

$$c = \frac{-a - 3b - 11}{7}$$

⑬ $2(a-b) + c = 7$ [a]

$$a = \frac{2b - c + 7}{2}$$

⑭ $V = abc$ [c]

$$c = \frac{V}{ab}$$

⑮ $\frac{1}{3}xyz = V$ [y]

$$y = \frac{3V}{xz}$$

⑯ $xy - 5 = -z$ [x]

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