

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 $\frac{1}{2}xy = S$ [y]

② $\frac{1}{3}abc = V$ [b]

③ $2(a+4) + b = c$ [a]

④ $\frac{a-2b}{3} = 3$ [a]

⑤ $6x = 9y + z$ [y]

⑥ $ab - 3 = -c$ [a]

⑦ $V = a^2b$ [b]

⑧ $\frac{8s+t}{4} = -6$ [s]

⑨ $x = 2y + 5z$ [z]

⑩ $8(x-y) - z = 3$ [y]

⑪ $s = 3t - 4$ [t]

⑫ $xy = 48$ [x]

⑬ $5x - y = -8z$ [y]

⑭ $a = 8b - 7c$ [c]

⑮ $\frac{1}{2}(a+b) = 8$ [a]

⑯ $a + 6b = 7c$ [a]

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① $\frac{1}{2}xy = S$ [y]

$$y = \frac{2S}{x}$$

② $\frac{1}{3}abc = V$ [b]

$$b = \frac{3V}{ac}$$

③ $2(a+4) + b = c$ [a]

$$a = \frac{-b+c-8}{2}$$

④ $\frac{a-2b}{3} = 3$ [a]

$$a = 2b + 9$$

⑤ $6x = 9y + z$ [y]

$$y = \frac{6x-z}{9}$$

⑥ $ab - 3 = -c$ [a]

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

⑦ $V = a^2b$ [b]

$$b = \frac{V}{a^2}$$

⑧ $\frac{8s+t}{4} = -6$ [s]

$$s = \frac{-t-24}{8}$$

⑨ $x = 2y + 5z$ [z]

$$z = \frac{x-2y}{5}$$

⑩ $8(x-y) - z = 3$ [y]

$$y = \frac{8x-z-3}{8}$$

⑪ $s = 3t - 4$ [t]

$$t = \frac{s+4}{3}$$

⑫ $xy = 48$ [x]

$$x = \frac{48}{y}$$

⑬ $5x - y = -8z$ [y]

$$y = 5x + 8z$$

⑭ $a = 8b - 7c$ [c]

$$c = \frac{-a+8b}{7}$$

⑮ $\frac{1}{2}(a+b) = 8$ [a]

$$a = -b + 16$$

⑯ $a + 6b = 7c$ [a]

$$a = -6b + 7c$$