

# 等式の変形

\_\_\_\_年 \_\_\_\_組 名前 \_\_\_\_\_

/18

■ 次の式を[ ]で指定された文字について解きなさい。

①  $\frac{s-4t}{3} = -8$  [s]

②  $\frac{1}{2}ab = S$  [a]

③  $4a - b = -2c$  [a]

④  $\frac{1}{3}xyz = V$  [x]

⑤  $st = 63$  [s]

⑥  $x = 7y - 2z$  [z]

⑦  $3a = 8b + c$  [b]

⑧  $\ell = 2\pi r$  [r]

⑨  $\frac{x+y}{6} = z$  [x]

⑩  $S = xy$  [y]

⑪  $\frac{a+b+c}{3} = 8$  [b]

⑫  $4(a+b) + c = 3$  [b]

⑬  $\frac{8a-b}{7} = 4$  [b]

⑭  $x = 4y - 5z$  [z]

⑮  $s - 3t = 7$  [t]

⑯  $a(b+2) = c$  [b]

⑰  $x + 6y = 5$  [x]

⑱  $3(a-b) = -c$  [a]

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■ 次の式を[ ]で指定された文字について解きなさい。

①  $\frac{s-4t}{3} = -8$  [s]

$$s = 4t - 24$$

②  $\frac{1}{2}ab = S$  [a]

$$a = \frac{2S}{b}$$

③  $4a - b = -2c$  [a]

$$a = \frac{b-2c}{4}$$

④  $\frac{1}{3}xyz = V$  [x]

$$x = \frac{3V}{yz}$$

⑤  $st = 63$  [s]

$$s = \frac{63}{t}$$

⑥  $x = 7y - 2z$  [z]

$$z = \frac{-x+7y}{2}$$

⑦  $3a = 8b + c$  [b]

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

⑧  $\ell = 2\pi r$  [r]

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

⑨  $\frac{x+y}{6} = z$  [x]

$$x = -y + 6z$$

⑩  $S = xy$  [y]

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

⑪  $\frac{a+b+c}{3} = 8$  [b]

$$b = -a - c + 24$$

⑫  $4(a+b) + c = 3$  [b]

$$b = \frac{-4a-c+3}{4}$$

⑬  $\frac{8a-b}{7} = 4$  [b]

$$b = 8a - 28$$

⑭  $x = 4y - 5z$  [z]

$$z = \frac{-x+4y}{5}$$

⑮  $s - 3t = 7$  [t]

$$t = \frac{s-7}{3}$$

⑯  $a(b+2) = c$  [b]

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

⑰  $x + 6y = 5$  [x]

$$x = -6y + 5$$

⑱  $3(a-b) = -c$  [a]

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