次の式を完成させなさい.

15×3
$=\ (\boxed{10}+\boxed{5})\ \times3$
$=10\times\boxed{3}+5\times\boxed{3}$

3×15
$=3\times\ (\boxed{10}+\boxed{5})$
$=3\times\boxed{10}+3\times\boxed{5}$

3×7
$=3\times(\boxed{10}-\boxed{3})$
$=3\times\boxed{10}-3\times\boxed{5}$

$3(\boxed{a}+\boxed{b})$
$=\boxed{3a}+\boxed{3b}$

$3(\boxed{a}-\boxed{b})$
$=\boxed{3a}-\boxed{3b}$

$3(\boxed{x}-\boxed{y})$
$=\boxed{3x}-\boxed{3y}$

$a(\boxed{x}-\boxed{y})$
$=\boxed{ax}-\boxed{ay}$

a

数字や文字の間に
＋または－
の記号を入れなさい.

$20-(10+3)$
$=20-10-3$

$20-10-2$
$=20-(10+2)$

$20-10+3$
$=20-(10-3)$

$20-(10-2)$
$=20-10+2$

$a-(b+c)$
$=a-b-c$

$x-y-z$
$=x-(y+z)$

$a-b+c$
$=a-(b-c)$

$x-(y-z)$
$=x-y+z$

次の計算をしなさい．

$a+2(b-c)$
$=a+2b-2c$

$a-2(b+c)$
$=a-2b-2c$

$a-2(b-c)$
$=a-2b+2c$

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

$a-2(3b+c)$
$=a-6b-2c$

$x-3(y-2z)$
$=x-3y+6z$

$a-2(3b+4c)$
$=a-6b-8c$

$x-3(2y-3x)$
$=x-6y+9x$
$=10x-6y$

一つのミスも無いように計算しなさい．

$5(a+b)+3(a+b)$
$=5a+5b+3a+3b$
$=8a+8b$

$5(a+b)-3(a+b)$
$=5a+5b-3a-3b$
$=2a+2b$

$5(a+b)+3(a-b)$
$=5a+5b+3a-3b$
$=8a+2b$

$5(a-b)-3(a+b)$
$=5a-5b-3a-3b$
$=2a-8b$

$5(a-b)-3(a-b)$
$=5a-5b-3a+3b$
$=2a-2b$

$3(a+b)+5(a+b)$
$=3a+3b+5a+5b$
$=8a+8b$

$-3(a+b)+5(a+b)$
$=-3a-3b+5a+5b$
$=-2a+2b$

$3(a+b)-5(a+b)$
$=3a+3b-5a-5b$
$=-2a-2b$

$-3(a+b)-5(a+b)$
$=-3a-3b-5a-5b$
$=-8a-8b$

$3(a+b)+5(a-b)$
$=3a+3b+5a-5b$
$=8a-2b$

$-3(a+b)+5(a-b)$
$=-3a-3b+5a-5b$
$=2a-8b$

$3(a-b)-5(a+b)$
$=3a-3b-5a-5b$
$=-2a-8b$

$-3(a-b)-5(a+b)$
$=-3a+3b-5a-5b$
$=-8a-2b$

$3(a-b)-5(a-b)$
$=3a-3b-5a+5b$
$=-2a+2b$

$-3(a-b)-5(a-b)$
$=-3a+3b-5a+5b$
$=-8a+8b$

診断Q　２年-領域２　**文字式**　レベル１　　月　日（　）氏名【

一つのミスも無いように計算しなさい.

$$\begin{array}{rrcr} & x & + & y \\ +) & x & + & y \\ \hline & 2x & + & 2y \end{array}$$

$$\begin{array}{rrcr} & 3x & - & y \\ -) & 2x & + & y \\ \hline & x & - & 2y \end{array}$$

$$\begin{array}{rrcr} & x & - & y \\ +) & x & - & y \\ \hline & 2x & - & 2y \end{array}$$

$$\begin{array}{rrcr} & 3x & + & 3y \\ +) & 2x & - & 2y \\ \hline & 5x & + & y \end{array}$$

$$\begin{array}{rrcr} & 3x & + & 2y \\ +) & x & + & y \\ \hline & 4x & + & 2y \end{array}$$

$$\begin{array}{rrcr} & 2x & + & 2y \\ +) & 3x & - & 3y \\ \hline & 5x & - & y \end{array}$$

$$\begin{array}{rrcr} & 3x & + & y \\ +) & x & - & y \\ \hline & 4x & & \end{array}$$

$$\begin{array}{rrcr} & 3x & - & 3y \\ +) & 2x & - & 2y \\ \hline & 5x & - & 2y \end{array}$$

$$\begin{array}{rrcr} & x & + & y \\ -) & x & + & y \\ \hline & & & 0 \end{array}$$

$$\begin{array}{rrcr} & 2x & - & 2y \\ +) & 3x & - & 3y \\ \hline & 5x & - & 5y \end{array}$$

$$\begin{array}{rrcr} & x & - & y \\ -) & x & - & y \\ \hline & & & 0 \end{array}$$

$$\begin{array}{rrcr} & 3x & + & 3y \\ -) & 2x & + & 2y \\ \hline & x & + & y \end{array}$$

$$\begin{array}{rrcr} & 5x & - & 2y \\ -) & 3x & + & 3y \\ \hline & 2x & - & 5y \end{array}$$

診断Q　２年-領域２　**文字式**　レベル１　　月　　日（　　）氏名【

次の単項式の計算を
文字式の約束に従って示しなさい.

$1\div2=\mathbf{\frac{1}{2}}$

$1\div3=\mathbf{\frac{1}{3}}$

$2\div3=\mathbf{\frac{2}{3}}$

$a\div3=\mathbf{\frac{a}{3}}$

$a\div b=\mathbf{\frac{a}{b}}$

$a\times a=\mathbf{a^2}$

$a\times a\times a=\mathbf{a^3}$

$a^2\times a^3=\mathbf{a^{2+3}=a^5}$

$3a\times a=\mathbf{3a^2}$

$2a\times 3a=\mathbf{6a^2}$

$2a^2\times 3a=\mathbf{6a^3}$

$6a\div3=\mathbf{2a}$

$6a^2\div3a=\mathbf{2a}$

$a^5\div a^2=\mathbf{a^3}$

$a\div a=\mathbf{1}$

$6a^5\div3a^2=\mathbf{2a^3}$

$a\div a^2=\mathbf{\frac{1}{a}}$

$2ab\div3=\mathbf{\frac{2ab}{3}}$

$2a\div3b=\mathbf{\frac{2a}{3b}}$

$a\times b=\mathbf{ab}$

$a\times a\times b=\mathbf{a^2b}$

$3ab\times ab=\mathbf{3a^2b^2}$

$2ab\times 3ab=\mathbf{6a^2b^2}$

$2a^2b\times 3ab=\mathbf{6a^3b^2}$

$6ab \div 3b = \mathbf{2a}$

$6a^2 \div 3ab = \mathbf{\frac{2a}{b}}$

$a^5b \div a^2 = \mathbf{a^3b}$

$a \div ab = \mathbf{\frac{1}{b}}$

$6a^5b \div 3a^2 = \mathbf{2a^3b}$

$ab \div a^2 = \mathbf{\frac{b}{a}}$

$2ab \div 3 = \mathbf{\frac{2ab}{3}}$

$2a^2 \div 3ab = \mathbf{\frac{2a}{3b}}$

$a^2 \times b = \mathbf{a^2b}$

$a \times a \times b = \mathbf{a^2b}$

$a^8 \div a^3 = \mathbf{a^5}$

$3a^2b \times ab^2 = \mathbf{3a^3b^3}$

$2ab \div 3ab^2 = \mathbf{\frac{2}{3b}}$

$2a^2b \times 3ab^2 = \mathbf{6a^3b^3}$

$6ab^2 \div 3b^2 = \mathbf{2a}$

$6a^2b \div 3ab^2 = \mathbf{\frac{2a}{b}}$

$a^5b^2 \div a^2 = \mathbf{a^3b^2}$

$ab \div ab^2 = \mathbf{\frac{1}{b}}$

$6a^5b \div 3a^2 = \mathbf{2a^3b}$

$ab^2 \div a^2b = \mathbf{\frac{b}{a}}$