計算問題（解答編）

レベル 1

1. 次の計算をしなさい。

(1) $4+2=6$

(2) $(1+2\times 4)\div 3=3$

(3) $\dfrac{2}{3}\times 3=2$

(4) $1-\dfrac{2}{3}\times 2+\dfrac{3}{4}=\dfrac{5}{12}$

(5) $2^4=16$

(6) $(-2)^3=-8$

(7) $(3x-2)+(2x-8)=5x-10$

(8) $-(2x-4)-(x+2)=-3x+2$

(9) $\dfrac{2x-1}{3}+\dfrac{2-x}{2}=\dfrac{x+4}{6}$

(10) $\dfrac{x-1}{2}-\left(\dfrac{x-3}{3}-1\right)=\dfrac{x+9}{6}$

2. 次の計算をしなさい。

(1) $2\times(4-2)=4$

(2) $(5-2)\div 3=1$

(3) $3\times\dfrac{4}{3}=4$

(4) $\dfrac{1}{3}-\dfrac{2}{5}+\dfrac{1}{7}=\dfrac{8}{105}$

(5) $3^4=81$

(6) $-3^3=-27$

(7) $2\times(3x-1)+(x-2)=7x-4$

(8) $(x-2)+(2x-3)\times 2=5x-8$

(9) $-\dfrac{-x-2}{2}+\left(\dfrac{x-3}{3}-x\right)\times 2=-\dfrac{5}{6}x-1$

(10) $\dfrac{x-1}{2}-\dfrac{1-x}{2}+2\times\dfrac{2x-1}{3}=\dfrac{7x-5}{3}$

3. 次の計算をしなさい。

(1) $3 \times 2 - 2 \times 4 = -2$

(2) $2 - (3 - 1) \div 2 = 1$

(3) $\dfrac{4}{3} \times \dfrac{2}{3} = \dfrac{8}{9}$

(4) $-\dfrac{1}{5} + \dfrac{2}{5} \times \dfrac{5}{3} = \dfrac{7}{15}$

(5) $4^3 + 1 = 65$

(6) $-(-2)^2 = -4$

(7) $(x - 2) \times 3 + \dfrac{2x - 2}{2} = 4x - 7$

(8) $(x + 2) + (4x - 6) \div 2 = 3x - 1$

(9) $(3x - 1) \div 4 + (2x + 3) \times \dfrac{3}{2} - \left(x - \dfrac{1}{3}\right) = \dfrac{33x + 55}{12}$

(10) $\dfrac{(2x - 1) - (x - 4)}{3} \div 2 + \dfrac{2x - 3}{5 - 2} \times 2 = \dfrac{3x - 3}{2}$

4. 次の計算をしなさい。

(1) $3 \times 2 - 25 = -19$

(2) $4 \div 2 + 6 \div 3 = 4$

(3) $\dfrac{3}{2} \times \dfrac{2}{3} = 1$

(4) $\dfrac{5}{2} \div \dfrac{7}{6} \times \dfrac{4}{3} + \dfrac{7}{3} = \dfrac{109}{21}$

(5) $3^2 \times 2 = 18$

(6) $-3 \times 2^3 + 5 = -19$

(7) $3x - 1 - (x - 5) \times (5 - 3) = x + 9$

(8) $(3y - 1) + 2(y - 1) + 3 = 5y$

(9) $(2a - 1) \times 3 + (3a - 2) \times 2 + \dfrac{a - 3}{3} = \dfrac{37}{3}a - 8$

(10) $a - 2 \times \dfrac{2a - 1}{3} + 3(2a - 3) \times \dfrac{4}{5} = \dfrac{67a - 98}{15}$

5. 次の計算をしなさい。

(1) $5 \times (2-4) = -10$

(2) $2 \div 3 + 3 \div 4 = \dfrac{17}{12}$

(3) $2 \times \dfrac{5}{2} \div 3 = \dfrac{5}{3}$

(4) $\dfrac{1}{2} - \dfrac{3}{4} + \dfrac{5}{6} - \dfrac{7}{8} = -\dfrac{7}{24}$

(5) $3^3 \div 9 = 3$

(6) $(5-3^2)^2 = 16$

(7) $4(y-2) + 16 - 3y = y + 8$

(8) $2\left(\dfrac{y}{2} - \dfrac{3}{2}\right) = y - 3$

(9) $7 \div \dfrac{5}{3} \times (2a-1) + 3 \times \dfrac{4}{7} \times (1-a) - a = \dfrac{199a - 87}{35}$

(10) $\dfrac{1}{2}a - \dfrac{1}{3}a + \dfrac{1}{5} - \dfrac{1}{7} = \dfrac{35a + 12}{210}$

6. 次の計算をしなさい。

(1) $(3+3) \times (2-1) = 6$

(2) $-3 \div 2 + \dfrac{1}{2} = -1$

(3) $3 \times \dfrac{3}{2} \div 2 = \dfrac{9}{4}$

(4) $\left(\dfrac{1}{2} - \dfrac{2}{5} + \dfrac{3}{2}\right) \times 3 = \dfrac{24}{5}$

(5) $(5^3 + 1) \times 6 = 756$

(6) $3 - 6^2 \times 5 = -177$

(7) $2(3x-1) - 3(2x+2) = -8$

(8) $\dfrac{3}{4}x - (3-x) = \dfrac{7}{4}x - 3$

(9) $5(2a-1) - 3(1+a) - 3(a-2) \times \dfrac{4}{5} = \dfrac{23a - 16}{5}$

(10) $a - \dfrac{3}{5}a + \dfrac{3a-1}{2} - \dfrac{4}{3} = \dfrac{57a - 55}{30}$

7. 次の計算をしなさい。

(1) $3+2\times 3\times 2=15$

(2) $\dfrac{1}{3}-3\div 2=-\dfrac{7}{6}$

(3) $\dfrac{4}{3}\times 2\div \dfrac{5}{2}=\dfrac{16}{15}$

(4) $3\times\left(\dfrac{1}{2}-\dfrac{3}{4}\right)+\dfrac{3}{7}=-\dfrac{9}{28}$

(5) $(3^2-2^3)\div\dfrac{4}{3}=\dfrac{3}{4}$

(6) $5-\dfrac{3^3}{2^3}=\dfrac{13}{8}$

(7) $2\left(\dfrac{2}{3}x-2\right)\times 4=\dfrac{16}{3}x-16$

(8) $2\left(\dfrac{3}{4}x-\dfrac{2}{3}\right)\div 3=\dfrac{9x-8}{18}$

(9) $(a-1)\div 2+(2a-1)\div 3-4(2a-1)\div 3\div 5=\dfrac{19a-17}{30}$

(10) $\left(\dfrac{3}{2}-\dfrac{4}{3}\right)\times\left(\dfrac{3}{2}a-\dfrac{2}{3}\right)=\dfrac{9a-4}{36}$

8. 次の計算をしなさい。

(1) $2\times 2-3\times 3=-5$

(2) $-2+3\div 4=-\dfrac{5}{4}$

(3) $7\div 3\times\dfrac{5}{3}=\dfrac{35}{9}$

(4) $\dfrac{1}{3}-\left(\dfrac{4}{5}+\dfrac{3}{4}\right)\times 2=-\dfrac{83}{30}$

(5) $(5-3)^2+4=8$

(6) $3^2\div 2^3\times 4^3=72$

(7) $(3x-1)\times 2-(2x+5)\div 3\times\dfrac{1}{3}=\dfrac{52x-23}{9}$

(8) $2x+(4-2x)\times\dfrac{3}{4}=\dfrac{1}{2}x+3$

(9) $3(a-1)-2(2a-3)+\dfrac{a-2(a-1)}{2}=-\dfrac{3}{2}a+4$

(10) $\left(a\times\dfrac{3}{5}-\dfrac{1}{2}a\right)+3(2a-5)-\dfrac{1}{2}a=\dfrac{28}{5}a-15$

9. 次の計算をしなさい。

(1) $4 \times (3-1) \times (2-3) = -8$

(2) $1 + 2 - 3 \div 4 = \dfrac{9}{4}$

(3) $\dfrac{3}{2} \div \dfrac{5}{3} = \dfrac{9}{10}$

(4) $\dfrac{1}{3} \times 2 - \left(\dfrac{3}{4} - \dfrac{1}{3}\right) \times 3 = -\dfrac{7}{12}$

(5) $7 - 4^3 = -57$

(6) $7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 5040$

(7) $2 \times (x-1) + \dfrac{2}{3}x - \dfrac{-5}{9}x - \dfrac{1}{3} = \dfrac{29x - 21}{9}$

(8) $(3 - 2x) + 2(x-5) + (x-2) \div 2 = \dfrac{1}{2}x - 8$

(9) $\dfrac{1}{4}a - 2(a-5) + (3-2a) \times \dfrac{1}{3} = -\dfrac{29}{12}a + 11$

(10) $(a-1) \times \dfrac{3}{5} + \dfrac{a-1}{2} - 2\dfrac{3-(2-5a)}{5} = -\dfrac{9a+15}{10}$

10. 次の計算をしなさい。

(1) $3 \times 5 \times (7-2) = 75$

(2) $2 \times 3 \div 4 = \dfrac{3}{2}$

(3) $\dfrac{2}{7} \times (3+4) = 2$

(4) $\left(\dfrac{1}{3} - \dfrac{2}{5}\right) \div \left(\dfrac{1}{2} - \dfrac{1}{3}\right) = -\dfrac{2}{5}$

(5) $3^3 + 4^2 - (-3)^3 = 70$

(6) $\dfrac{(3+2)^2 - (4-2)^2}{3+5^2} = \dfrac{3}{4}$

(7) $(2 \div 3 \times x \times 5 \div 4 \times 2x - 1) \times 2 \div 3 = \dfrac{10x^2 - 6}{9}$

(8) $3 \div \dfrac{3}{2} \times 3x - 2x(3 - \dfrac{3}{2}) = 3x$

(9) $(1+2) + 3 \times \{(3a-1) - 3 \times (2+a)\} \times \dfrac{3(a-1) - 1 - a - (2-3a)}{7} = 21 - 15a$

(10) $(2^3a - 3^2 + 4a) \times \dfrac{2}{3} - \dfrac{6a - (2-3a)}{4} = \dfrac{23a - 22}{4}$