



1. 次の計算をなさい。

(1) -5^2
 $-5 \times 5 = -25$

(2) $(-5)^2$
 $(-5) \times (-5) = 25$

(3) $(-5)^3$
 $(-5) \times (-5) \times (-5) = -125$

(4) -7×3^2
 $-7 \times 3 \times 3 = -63$

(5) $(-5) + 6 \times \left(-\frac{2}{3}\right)$
 $(-5) + (-4) = -9$

(6) $(-8) \div \left(\frac{2}{3}\right) + 5$
 $(-8) \times \left(\frac{3}{2}\right) + 5 = (-12) + 5 = -7$

(7) $-2 \times \left\{3 - \left(\frac{2}{5}\right)^2\right\} + 6$
 $\times \left\{3 - \left(\frac{4}{25}\right)\right\} + 6 = -2 \times \left(\frac{71}{25}\right) + 6$
 $= -\frac{142}{25} + 6 = \frac{-142 + 150}{25} = \frac{8}{25}$

(8) $6 \times \left(-\frac{1}{2}\right)^2 - 10$
 $6 \times \left(-\frac{1}{2}\right) \times \left(-\frac{1}{2}\right) - 10$
 $= 6 \times \frac{1}{4} - 10 = \frac{3}{2} - 10 = -\frac{17}{2}$

(9) $(-7) \div \frac{3}{5} \times 2 + \frac{10}{3}$
 $(-7) \times \frac{5}{3} \times 2 + \frac{10}{3} = -\frac{70}{3} + \frac{10}{3}$
 $= -\frac{60}{3} = -20$

(10) $(-5) \times \left(4 - \frac{6}{5}\right)$
 $(-5) \times \left(\frac{20-6}{5}\right) = -14$

(11) $18 \div (-6) \times \left(-\frac{2}{3}\right) - 2$
 $18 \times \left(-\frac{1}{6}\right) \times \left(-\frac{2}{3}\right) - 2$
 $= 2 - 2 = 0$

(12) $\frac{2 \times (-4) - 6}{4 - (-10)}$
 $\frac{-8 - 6}{14} = \frac{-14}{14} = -1$

(1) -25	(2) 25	(3) -125
(4) -63	(5) -9	(6) -7
(7) $\frac{8}{25}$	(8) $-\frac{17}{2}$	(9) -20
(10) -14	(11) 0	(12) -1

2. 分配法則を利用して次の計算をなさい。

(1) $\frac{6}{5} \times \left(\frac{5}{2} - \frac{10}{3}\right)$
 $\frac{6}{5} \times \frac{5}{2} - \frac{6}{5} \times \frac{10}{3} = 3 - 4 = -1$

(2) $\frac{1}{6} \times \frac{7}{2} - \frac{1}{6} \times \frac{5}{2}$
 $\frac{1}{6} \times \left(\frac{7}{2} - \frac{5}{2}\right) = \frac{1}{6} \times \frac{2}{2} = \frac{1}{6}$

(3) 99×23
 $(100 - 1) \times 23$
 $= 100 \times 23 - 1 \times 23$
 $= 2300 - 23 = 2277$

(1) -1	(2) $\frac{1}{6}$	(3) 2277
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