

【中1 数学 | 正負の数】

【1】 次の計算をなさい。

$$(1) -\frac{7}{6} \div \left(-\frac{1}{7}\right) \times \left(-\frac{3}{14}\right) \div \frac{14}{15}$$

$$= -\frac{7}{6} \times (-7) \times \left(-\frac{3}{14}\right) \times \frac{15}{14}$$

$$= -\frac{15}{8}$$

$$(3) (-0.8) \div \left(-\frac{7}{20}\right) \div \frac{1.2}{8} \times \frac{3}{8}$$

$$= -\frac{4}{5} \times \left(-\frac{20}{7}\right) \times \frac{5}{8} \times \frac{3}{8}$$

$$= \frac{5}{7}$$

$$(5) (-5^2) \times (-0.3)^2 - \left(\frac{3}{4}\right)^2$$

$$= -25 \times \frac{9}{100} - \frac{9}{16}$$

$$= -\frac{9}{4} - \frac{9}{16}$$

$$= -\frac{36-9}{16} = -\frac{45}{16}$$

$$(2) \left(-\frac{9}{7}\right) \div \frac{3}{5} \div \left(-2\frac{4}{7}\right) \times \frac{7}{5}$$

$$= -\frac{9}{7} \times \frac{5}{3} \times \left(-\frac{7}{18}\right) \times \frac{7}{5}$$

$$= \frac{7}{6}$$

$$(4) \left(-\frac{5}{2}\right)^2 \times 1.2^2 \div (-6)$$

$$= \frac{25}{4} \times \left(\frac{6}{5}\right)^2 \times \left(-\frac{1}{6}\right)$$

$$= -\frac{25}{4} \times \frac{36}{25} \times \left(-\frac{1}{6}\right)$$

$$= -\frac{3}{2}$$

$$(6) (-0.2)^2 \div \left(-\frac{2}{5}\right)^2 \times \left(-\frac{5}{8}\right) \div \frac{0.5^2}{\left(\frac{1}{2}\right)^2}$$

$$= \frac{1}{25} \times \frac{25}{4} \times \left(-\frac{5}{8}\right) \times \frac{1}{4}$$

$$= -\frac{5}{8}$$

【2】 次の計算をなさい。

$$(1) \left\{\frac{1}{3} + \left(\frac{2}{3} - \frac{1}{4}\right) \times \frac{4}{3}\right\} \div \left(-\frac{4}{3}\right)$$

$$= \left(\frac{1}{3} + \frac{8-3}{12} \times \frac{4}{3}\right) \times \left(-\frac{3}{4}\right)$$

$$= \left(\frac{1}{3} + \frac{5}{9}\right) \times \left(-\frac{3}{4}\right) = \frac{8}{9} \times \left(-\frac{3}{4}\right)$$

$$= -\frac{2}{3}$$

$$(3) (8-2)^2 \div 3^2 + (9-2) \times (-4)$$

$$= 36 \div 9 + 7 \times (-4)$$

$$= 4 - 28$$

$$= -24$$

$$(5) 5 - 6 - (3-5)^2 \div 4 + (-2)^3 \times (-1)$$

$$= 5 - 6 - 4 \div 4 - 8 \times (-1)$$

$$= -1 - 1 + 8$$

$$= 6$$

$$(2) \left\{\left(-1\frac{5}{6}\right) - \left(-\frac{1}{6}\right)\right\} \div \left\{\frac{2}{3} \div \left(-\frac{1}{9}\right)\right\}$$

$$= \left(-\frac{11}{6} + \frac{1}{6}\right) \div \left\{\frac{2}{3} \times (-9)\right\}$$

$$= -\frac{10}{6} \div (-6)$$

$$= -\frac{5}{3} \times \left(-\frac{1}{6}\right) = \frac{5}{18}$$

$$(4) (-2) \times (-7) + 56 \div (-2)^3 + 4$$

$$= 14 + 56 \div (-8) + 4$$

$$= 14 - 7 + 4$$

$$= 11$$

$$(6) -15 \div 3 - \{(3-5)^2 - 8\} \div \left(\frac{1}{2}\right)^2$$

$$= -5 - (4-8) \times 4$$

$$= -5 - 4$$

$$= -9$$

YouTubeチャンネルも見てね▶ 『ふじわら塾長』で検索!!

