

تمرین صفحه ۱۷ و ترکیبی ۱۸

تمرین فصل ۱- درس چهارم پایه: هشتم



۱- حاصل عبارت‌های زیر را به دست آورید.

$$\left(-\frac{6}{17}\right) + \left(-\frac{8}{17}\right) = \frac{-6+8}{17} = \frac{2}{17}$$

$$\left(-\frac{12 \times 6}{35 \times 6}\right) - \left(+\frac{11 \times 5}{42 \times 5}\right) = \frac{-72-55}{210} = \frac{-127}{210}$$

$$\left(-\frac{2 \times 8}{63 \times 8}\right) - \left(-\frac{5 \times 7}{72 \times 7}\right) = \frac{-16+35}{504} = \frac{19}{504}$$

$$-\frac{7}{12} + (-3) = -3\frac{7}{12}$$

$$\left(+\frac{2}{11}\right) \times \left(-\frac{6}{9}\right) = -\frac{2 \times \cancel{6}^2}{11 \times \cancel{9}_3} = -\frac{4}{33}$$

$$\left(-\frac{1}{10}\right) \times \left(+\frac{8}{12}\right) = -\frac{1 \times \cancel{8}^2}{\cancel{10}_5 \times \cancel{12}_3} = -\frac{1}{15}$$

$$-8 \div (+5) = -\frac{8}{5} = -1\frac{3}{5}$$

$$(-12) \div (-28) = +\frac{\cancel{12}}{\cancel{28}} = \frac{3}{7}$$

$$\left(-\frac{9}{9}\right) \div \left(-\frac{28}{27}\right) = +\frac{\cancel{9} \times \cancel{27}}{\cancel{9} \times \cancel{28}} = \frac{3}{4}$$

$$-2/4 \div 1/2 = -2$$

۲- عددهای زیر را به ساده‌ترین صورت بنویسید.

$$-\left(-\frac{5}{8}\right) = \frac{5}{8}$$

$$-\left(\frac{14}{-19}\right) = \frac{14}{19}$$

$$-\left(\frac{-5}{-13}\right) = -\frac{5}{13} \quad -\frac{3}{5} = -\frac{3}{5}$$

۳- حاصل عبارت‌های زیر را به دست آورید.

$$\left(\frac{3}{5} - \left(+\frac{2}{5}\right)\right) \times \frac{5}{12} = \frac{1}{5} \times \frac{5}{12} = \frac{1 \times \cancel{5}}{\cancel{5} \times 12} = \frac{1}{12}$$

$$\left(-\frac{2}{5}\right) \div \left(-\frac{2 \times 6 \times 5 \times 5}{5 \times 6 \times 6 \times 5}\right) = -\frac{3 \times \cancel{3} \cdot 6}{\cancel{5} \times 13} = -\frac{18}{13} = -1 \frac{5}{13}$$

$$\frac{-12 + 25}{30} = \frac{13}{30}$$

$$\left(\frac{2}{5} - \frac{3}{5} - \frac{7}{5} + \frac{4}{5}\right) \times \left(-\frac{5}{3}\right) = + \frac{4 \times 5}{5 \times 3} = \frac{4}{3} = 1 \frac{1}{3}$$

$$\frac{2-3-7+4}{5} = -\frac{4}{5}$$

$$\left(-\frac{3 \times 9}{8 \times 9} + \frac{1 \times 12}{6 \times 12} - \frac{8 \times 8}{9 \times 8}\right) \div \frac{-7}{24} = -\frac{79}{72} \div \left(-\frac{7}{24}\right) = + \frac{79 \times 24}{72 \times 7} = \frac{79}{21} = 3 \frac{16}{21}$$

$$\frac{-27+12-64}{72} = -\frac{79}{72}$$

$$\left(\frac{-2}{5} + \frac{3}{5} - \frac{7}{5}\right) + \left(-\frac{1 \times 5}{3 \times 5} + \frac{2 \times 3}{5 \times 3} - \frac{1}{15}\right) = -6$$

$$\frac{-5+6-1}{15} = \frac{-1}{15} = -\frac{1}{15}$$

$$-1\frac{1}{2} \times (-3\frac{1}{3}) = -\frac{3}{2} \times (-\frac{10}{3}) = +\frac{\cancel{3} \times 10}{\cancel{3} \times 2} = 5$$

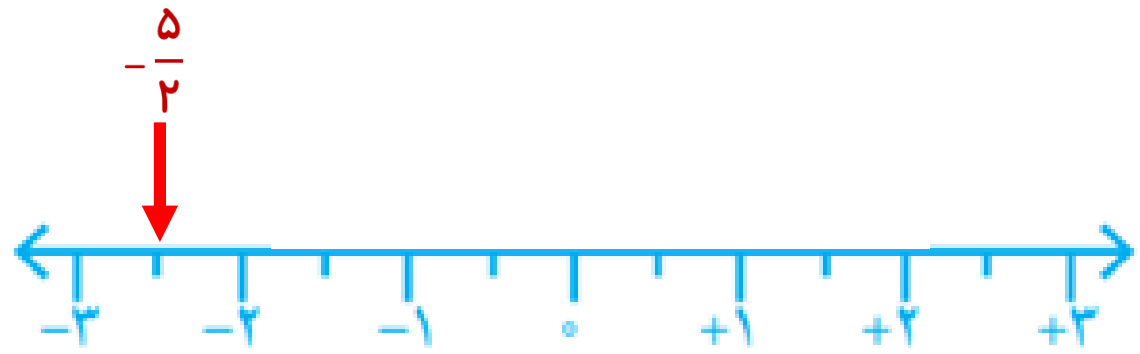
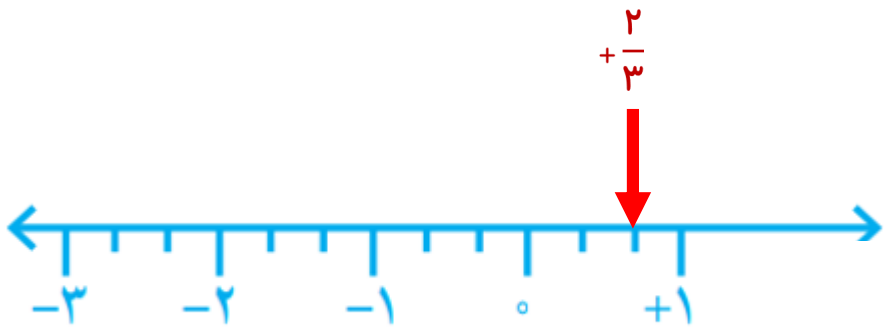
$$-4\frac{1}{2} \div 1\frac{1}{4} = -\frac{9}{2} \div \frac{5}{4} = -\frac{9 \times \cancel{4}}{\cancel{2} \times 5} = -\frac{18}{5} = -3\frac{3}{5}$$

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

تمرین‌های ترکیبی

۱- عددهای گویا را روی محور نمایش دهید.

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



۲- حاصل عبارتهای زیر را به دست آورید.

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

$$-\frac{7}{6} \div \frac{1}{2} = -\frac{7 \times \cancel{2}^1}{\cancel{6}_3 \times 1} = -\frac{7}{3} = -2\frac{1}{3}$$

$$-\frac{5}{2} + \frac{4}{3} = \frac{-15+8}{6} = -\frac{7}{6}$$

$$-\frac{5}{4} \times \left(-\frac{2}{5}\right) = +\frac{\cancel{5}^1 \times \cancel{2}^1}{\cancel{4}_2 \times \cancel{5}_1} = \frac{1}{2}$$

$$1 - \left(\frac{1}{2} - \frac{1}{2} \right) = 1 - \left(\frac{1}{2} - \frac{1}{2} \right) = 1 - (-1) = 1 + 1 = 2$$

$$1 - \frac{1}{2} = \frac{1}{2}$$

$$-\frac{1}{2} \div \frac{1}{2} = -1$$

$$1 + \frac{1}{2} = \frac{3}{2}$$

ساد باشد