

Opakování reálných čísel

1) Vyjádři zlomky desetinným číslem

$$\text{a) } \frac{3}{5} = \frac{6}{10} = 0,6$$

$$\text{b) } \frac{47}{100} = 0,47$$

$$\text{c) } \frac{3}{8} = \frac{375}{1000} = 0,375 \text{ nebo } 3 : 8 = 0,375$$

2) Převed' na desetinná čísla, zaokrouhli na setiny

$$\text{a) } \frac{1}{3} = 1 : 3 = 0,33$$

$$\text{b) } \frac{3}{7} = 3 : 7 = 0,43$$

$$\text{c) } \frac{23}{18} = 23 : 18 = 1,28$$

3) Porovnej zlomky

$$\text{a) } \frac{2}{3} \text{ a } \frac{3}{5}$$

$$\frac{2}{3} = \frac{10}{15} ; \quad \frac{3}{5} = \frac{9}{15}$$

$$\frac{10}{15} > \frac{9}{15}$$

$$\frac{2}{3} > \frac{3}{5}$$

$$\text{b) } \frac{8}{15} \text{ a } \frac{6}{13}$$

$$\frac{8}{15} > \frac{6}{13}, \text{ protože } \frac{8}{15} \text{ je větší než } \frac{1}{2} \text{ a zlomek } \frac{6}{13} \text{ je menší než } \frac{1}{2}$$

4) Vypočti:

$$\text{a) } (-11) + (+12) - (+16) - (-13) = -11 + 12 - 16 + 13 = -2$$

$$\text{b) } (-6) + (+8) - (-7) - (-3) = -6 + 8 + 7 + 3 = 12$$

$$\text{c) } 2 \cdot [(3-5) \cdot 4 - 5 \cdot (-2)] : (-5) = 2 \cdot [-8 + 10] : (-5) = 2 \cdot [-2] : (-5) = -4 : (-5) = \frac{4}{5}$$

5) Vypočti:

$$\text{a) } \frac{3}{4} - \frac{1}{2} + \frac{1}{5} = \frac{15-10}{20} = \frac{9}{20}$$

$$\text{b) } (-2 - \frac{3}{5}) : (-2 + \frac{3}{5}) = (-\frac{13}{5}) : (-\frac{7}{5}) = (-\frac{13}{5}) \cdot (-\frac{5}{7}) = \frac{13}{7}$$

$$\text{c) } \frac{\frac{3}{4}}{\frac{5}{6}} = \frac{3}{4} : \frac{5}{6} = \frac{3}{4} \cdot \frac{6}{5} = \frac{9}{10}$$

$$\text{d) } 2\frac{3}{4} : (1\frac{1}{2} - \frac{2}{5}) + (\frac{3}{4} + \frac{5}{6}) : 3\frac{1}{6} = \frac{11}{4} : (\frac{3}{2} - \frac{2}{5}) + (\frac{9+10}{12}) : \frac{19}{6} = \frac{11}{4} : \frac{15-4}{10} + \frac{19}{12} : \frac{19}{6} = \frac{11}{4} \cdot \frac{10}{11} + \frac{19}{12} \cdot \frac{6}{19} =$$

$$= \frac{10}{4} + \frac{6}{12} = \frac{10}{4} + \frac{2}{4} = \frac{12}{4} = 3$$