

ДОМАЋИ ЗАДАТАК БР.1

1. Израчунати вредност израза :

$$1) \frac{15^3}{8^1} \cdot \frac{16^2}{25^5} = \frac{6}{5} = \boxed{1\frac{1}{5}}$$

$$2) -\frac{24^8}{35^5} \cdot \frac{14^2}{\cancel{7^1}} = -\frac{16}{5} = \boxed{-3\frac{1}{5}}$$

$$3) 2\frac{1}{2} \cdot 0,02 = \frac{5}{2} \cdot \frac{1}{50} = \frac{\cancel{5^1}}{2} \cdot \frac{1}{\cancel{50}^{10}} = \boxed{\frac{1}{20}}$$

$$4) -2\frac{2}{3} \cdot 4\frac{1}{2} = -\frac{\cancel{8^4}}{\cancel{3^1}} \cdot \frac{\cancel{9^3}}{\cancel{2^1}} = \boxed{-12}$$

2. Израчунати вредност израза :

$$1) 6: \frac{3}{2} = \frac{\cancel{6^2}}{1} \cdot \frac{2}{\cancel{3^1}} = \boxed{4}$$

$$2) \frac{3}{4} : \frac{3}{1} = \frac{\cancel{3^1}}{4} \cdot \frac{1}{\cancel{3^1}} = \boxed{\frac{1}{4}}$$

$$3) \frac{2}{3} : \frac{3}{4} = \frac{2}{3} \cdot \frac{4}{3} = \boxed{\frac{8}{9}}$$

$$4) \frac{4}{5} : \frac{5}{6} = \frac{4}{5} \cdot \frac{6}{5} = \boxed{\frac{24}{25}}$$

3. Израчунати вредност израза :

Морате прво да претворите мешовити број у неправи разломак!!!

$$a) \left(\frac{1^2}{3^2} + \frac{5}{6}\right) : \frac{2}{3} = \left(\frac{2}{6} + \frac{5}{6}\right) : \frac{2}{3} = \frac{7}{6} : \frac{2}{3} = \frac{7}{6} \cdot \frac{\cancel{3^1}}{2} = \frac{7}{4} = \boxed{1\frac{3}{4}}$$

$$b) \frac{1}{3} + \frac{5}{6} : \frac{2}{3} = \frac{1}{3} + \frac{5}{\cancel{6^2}} \cdot \frac{\cancel{3^1}}{2} = \frac{1^4}{3^4} + \frac{5^3}{4^3} = \frac{4}{12} + \frac{15}{12} = \frac{19}{12} = \boxed{1\frac{7}{12}}$$

$$c) \frac{7}{18} - \frac{9}{14} \cdot 2\frac{1}{3} = \frac{7}{18} - \frac{9}{14} \cdot \frac{7}{3} = \frac{7}{18} - \frac{\cancel{9^3}}{\cancel{14^2}} \cdot \frac{\cancel{7^1}}{\cancel{3^1}} = \frac{7}{18} - \frac{3^9}{2^9} = \frac{7}{18} - \frac{27}{18} = -\frac{20^2}{18^2} = -\frac{10}{9} = \boxed{-1\frac{1}{9}}$$

$$d) -\frac{3}{2} \cdot \left(\frac{2}{3} + 1\frac{1}{6}\right) = -\frac{3}{2} \cdot \left(\frac{2^2}{3^2} + \frac{7}{6}\right) = -\frac{3}{2} \cdot \left(\frac{4}{6} + \frac{7}{6}\right) = -\frac{3}{2} \cdot \frac{11}{6} = -\frac{\cancel{3^1}}{2} \cdot \frac{11}{\cancel{6^2}} = -\frac{11}{4} = \boxed{-2\frac{3}{4}}$$

4. Израчунати вредност израза :

$$a) -0,2 \cdot (-0,6) + 1,8 : (-0,6) = 0,12 + (-3) = 0,12 - 3 = \boxed{-2,88}$$

$$b) 3\frac{1}{3} - \frac{1}{3} : \left(\frac{5^4}{6^4} - \frac{7^3}{8^3}\right) = 3\frac{1}{3} - \frac{1}{3} : \left(\frac{20}{24} - \frac{21}{24}\right) = 3\frac{1}{3} - \frac{1}{3} : \left(-\frac{1}{24}\right) = 3\frac{1}{3} - \frac{1}{\cancel{3^1}} \cdot \left(-\frac{\cancel{24^8}}{1}\right) = 3\frac{1}{3} - (-8) = 3\frac{1}{3} + 8 = \boxed{11\frac{1}{3}}$$

5. Израчунати вредност израза :

$$a) \frac{3\frac{1}{3}}{-\frac{5}{6}} = \frac{\frac{10}{3}}{-\frac{5}{6}} = -\frac{\cancel{10^2} \cdot \cancel{6^2}}{\cancel{3^1} \cdot \cancel{5^1}} = \boxed{-4}$$

$$b) \frac{-0,2}{\frac{10}{3}} = \frac{-\frac{1}{5}}{\frac{10}{3}} = -\frac{1 \cdot 3}{10 \cdot 5} = \boxed{-\frac{3}{50}}$$

$$c) \frac{1 + \frac{5}{3}}{1 + \frac{3}{5}} = \frac{\frac{3}{3} + \frac{5}{3}}{\frac{5}{5} + \frac{3}{5}} = \frac{\frac{8}{3}}{\frac{8}{5}} = \frac{8 \cdot 5}{3 \cdot 8} = \frac{\cancel{8^1} \cdot 5}{3 \cdot \cancel{8^1}} = \frac{5}{3} = \boxed{1\frac{2}{3}}$$

Најчешћа грешка у вашим домаћим задацима!!!