M8

od 13.1.

Ústní cvičení

55/6

A $(4+5)\cdot 3^2 = 9\cdot 9 = 81$

$4+5\cdot 3^2 = 4+5\cdot 9 = 49$

$(4+5\cdot 3)^2 = (4+15)^2 = 19^2 = 361$

$4+(5\cdot 3)^2 = 4+15^2 = 4+225 = 229$

B $2+4\cdot 5^2 = 2+100 = 102$

$(2+4)\cdot 5^2 = 6\cdot 25 = 150$

$2+(4\cdot 5)^2 = 2+400 = 402$

$(2+4\cdot 5)^2 = 22^2 = 484$

Písemné cvičení

56/10

$25{,}4 + 81{,}9$

$3\cdot 582$

$-15+5\cdot(-19)$

$12{,}5\cdot[22+(-7)]$

$12{,}5\cdot(-7)+12{,}5\cdot 22$

$3\cdot 9+5$

$3\cdot(9+5)$

56/11

$(64:16)^2$

$[-6+(-3)]^2$

$(-6)^2+(-3)^2$

$\sqrt{225}-\sqrt{144}$

$(2^2)^3$

5 b) $\left(-\frac{10}{27}\right) : \left(-\frac{25}{3}\right) = \frac{\cancel{10}^{2}}{27} \cdot \frac{\cancel{3}^{1}}{\cancel{25}_{5}} = \frac{2}{45}$

5 f) $\left(-\frac{13}{18}\right) : \frac{39}{4} = -\frac{\cancel{13}^{1}}{\cancel{18}_{9}} \cdot \frac{\cancel{42}}{\cancel{39}_{3}} = -\frac{2}{27}$

6 b) $0{,}24 : \frac{12}{5} = \frac{2\cancel{24}}{\cancel{100}_{20}} \cdot \frac{\cancel{5}^{1}}{\cancel{12}_{1}} = \frac{2}{20} = \frac{1}{10}$

7 c) $\left(-1\frac{2}{3}\right) : \frac{19}{21} = -\frac{5}{\cancel{3}_{1}} \cdot \frac{\cancel{21}^{7}}{19} = -\frac{35}{19} = -1\frac{16}{19}$

3 a)

$$\frac{2-\frac{1}{8}}{\frac{3}{4}+\frac{5}{6}} = \left(\frac{2}{1}-\frac{1}{8}\right) : \left(\frac{3}{4}+\frac{5}{6}\right) = \frac{16-1}{8} : \frac{9+10}{12} =$$

$$= \frac{15}{8} : \frac{19}{12} = \frac{15}{\cancel{8}_{2}} \cdot \frac{\cancel{12}^{3}}{19} = \frac{45}{38} = \boxed{1\frac{7}{38}}$$

7 c)

$$\frac{\frac{2}{3}-(-2{,}8)}{\frac{1}{3}:\frac{5}{13}} = \left(\frac{2}{3}+\frac{28}{10}\right) : \left(\frac{1}{3}\cdot\frac{13}{5}\right) =$$

$$= \frac{20+84}{30} : \frac{13}{15} = \frac{\cancel{104}^{8}}{\cancel{30}_{2}} \cdot \frac{\cancel{15}^{1}}{\cancel{13}_{1}} = \frac{8}{2} = \boxed{4}$$