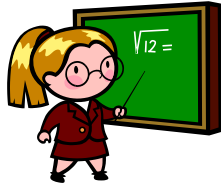


INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ



DRUHÁ MOCNINA A ODMOCNINA (M-08-05)

Vypočítejte:

$$1) 5^2 + 3 \cdot 8^2 = 25 + 3 \cdot 64 = 25 + 192 = \underline{217}$$

$$2) (-7)^2 - 2^2 \cdot 3^2 = 49 - 4 \cdot 9 = 49 - 36 = \underline{13}$$

$$3) 0,6^2 + 0,02^2 + 0,4^2 - 0,08^2 = 0,36 + 0,0004 + 0,16 - 0,064 = \underline{0,4564}$$

$$4) \frac{4 + (-6)^2}{3 \cdot 8^2} = \frac{4 + 36}{3 \cdot 64} = \frac{40}{192} = \underline{\frac{20}{96}}$$

$$5) \frac{(-11)^2 + 12^2}{6^2} = \frac{121 + 144}{36} = \underline{\frac{265}{36}}$$

$$6) \frac{-16^2 - (-6)^2}{(8+9)^2} = \frac{-256 - 36}{289} = \underline{\frac{-292}{289}}$$

$$7) (14^2 - 10^2) : 2^2 = (196 - 100) : 4 = 96 : 4 = \underline{24}$$

$$8) \sqrt{64} - \sqrt{16} = 8 - 4 = \underline{4}$$

$$9) \sqrt{49 \cdot 0,01} = \sqrt{0,49} = \underline{0,7}$$

$$10) \sqrt{121} - \sqrt{81} = 11 - 9 = \underline{2}$$

$$11) \sqrt{158 - 14} = \sqrt{144} = \underline{12}$$

$$12) \frac{\sqrt{2500}}{\sqrt{900}} = \frac{50}{30} = \underline{\frac{5}{3}}$$