

$$\text{esim. } 2 \cdot 3^2 = 2 \cdot 9 = 18 \quad (3^2 = 3 \cdot 3 = 9)$$

$$\text{esim. } (2-3)^2 = (-1)^2 = -1 \cdot (-1) = 1$$

$$\text{esim. } 2^3 + 3^2 = 8 + 9 = 17 \\ (= 2 \cdot 2 \cdot 2 + 3 \cdot 3)$$

343 344 5.69

343

$$\text{a) } 2 \cdot 4^2 = 2 \cdot 16 = 32 \\ (4 \cdot 4)$$

$$\text{b) } (14-11)^2 = 3^2 = 9 \\ (3 \cdot 3)$$

$$\text{c) } -3^2 + 2^3 = -9 + 8 \\ -(3 \cdot 3) \quad (2 \cdot 2 \cdot 2) = -1$$

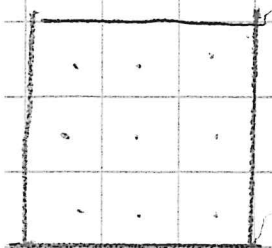
344

$$\text{a) } 10 \cdot 3^3 = 10 \cdot 27 = 270 \\ (3 \cdot 3 \cdot 3)$$

$$\text{b) } (4+6)^2 = 10^2 = 100 \\ (10 \cdot 10)$$

$$\text{c) } 10^2 + 9^2 = 100 + 81 = 181 \\ 10 \cdot 10 \quad 9 \cdot 9$$

Neliöjuuri s. 73



$$3^2 = 3 \cdot 3 = 9$$

"luvun 3 neliö"

$$\sqrt{9} = 3 \leftarrow \text{(neliöjuuri)}$$

juuri juurettava

esim. $\sqrt{16} = 4$ ($4^2 = 16$)

$$\sqrt{25} = 5 \quad (5^2 = 25)$$

$$\sqrt{1} = 1 \quad (1^2 = 1)$$

$$\sqrt{0} = 0 \quad (0^2 = 0)$$

$$\sqrt{-4} \text{ ei voi laskea!}$$

↑ ei saa olla negatiivinen

s. 74

380

381

382

a) $2 \cdot \sqrt{36} = 2 \cdot 6 = 12$

b) $\sqrt{3 \cdot 12} = \sqrt{36} = 6$

c) $\sqrt{4} \cdot \sqrt{49} = 2 \cdot 7 = 14$

d) $\sqrt{100} + \sqrt{81} = 10 + 9 = 19$

381

$$a) \sqrt{64} - 2 = 8 - 2 = 6$$

$$b) 100 + \sqrt{4} = 100 + 2 = 102$$

$$c) \frac{\sqrt{100}}{\sqrt{4}} = \frac{10}{2} = 5$$

$$d) \sqrt{81} - \sqrt{25} = 9 - 5 = 4$$

382

$$a) \sqrt{50 - 25} = \sqrt{25} = 5$$

$$b) \sqrt{4^2} = \sqrt{16} = 4$$

$$c) \sqrt{9} \cdot \sqrt{9} = 3 \cdot 3 = 9$$

$$d) \sqrt{25} + \sqrt{81} = 5 + 9 = 14$$

MA 14.12 KOE