

402

5.76

$$a) \quad {}^2\frac{3}{4} - \frac{3}{8} = \frac{6}{8} - \frac{3}{8} = \frac{3}{8}$$

$$b) \quad \frac{9}{10} - {}^2\frac{4}{5} = \frac{9}{10} - \frac{8}{10} = \frac{1}{10}$$

$$c) \quad {}^3\frac{5}{8} - {}^2\frac{5}{12} = \frac{15}{24} - \frac{10}{24} = \frac{5}{24}$$

$$d) \quad {}^2\frac{4}{9} - {}^3\frac{2}{6} = \frac{8}{18} - \frac{6}{18} = \frac{2}{18} = \frac{1}{9}$$

410

$$a) \quad \frac{6}{9} : \frac{3}{2} = \frac{6}{9} \cdot \frac{2}{3} = \frac{12}{27} = \frac{4}{9}$$

$$b) \quad 1\frac{2}{3} : 2 = \frac{5}{3} : \frac{2}{1} = \frac{5}{3} \cdot \frac{1}{2} = \frac{5}{6}$$

$$c) \quad 2\frac{1}{4} : \frac{8}{9} = \frac{9}{4} \cdot \frac{9}{8} = \frac{81}{32} = 2\frac{17}{32}$$

$$d) \quad \frac{7}{11} : 1\frac{6}{8} = \frac{7}{11} : \frac{14}{8} = \frac{7}{11} \cdot \frac{8}{14} \\ = \frac{56}{154} = \frac{8}{22} = \frac{4}{11}$$

424

5.78

$$\begin{aligned}
 a) \quad & 170,7 - 1,4 \cdot 4,6 \\
 & = 170,7 - 6,44 \\
 & = 164,26
 \end{aligned}$$

$$\begin{array}{r}
 1,4 \\
 - 4,6 \\
 \hline
 184 \times \\
 + 56 \cancel{\times} \\
 \hline
 6,44
 \end{array}$$

$$\begin{array}{r}
 170,70 \\
 - \quad 6,44 \\
 \hline
 164,26
 \end{array}$$

$$\begin{aligned}
 b) \quad & 3,5 \cdot (3,6 + 2,1) \\
 & = 3,5 \cdot 5,7 \\
 & = 19,95
 \end{aligned}$$

$$\begin{array}{r}
 3,5 \\
 \cdot 5,7 \\
 \hline
 245 \times \\
 175 \cancel{\times} \\
 \hline
 19,95
 \end{array}$$

$$\begin{aligned}
 c) \quad & \frac{3,2 \cdot 8}{9} = \frac{25,6}{9} = 2,844... \\
 & \approx 2,84
 \end{aligned}$$

$$\begin{array}{r}
 2,844... \\
 9 \overline{) 25,600} \\
 \underline{- 18} \\
 76 \\
 \underline{- 72} \\
 40 \\
 \underline{- 36} \\
 40 \\
 \vdots
 \end{array}$$

$$\begin{array}{r}
 3,2 \\
 \cdot 8 \\
 \hline
 25,6 \times
 \end{array}$$

$$d) \quad 260,81 \cdot 10 \cdot 1,5$$

$$= 2608,1 \cdot 1,5$$

$$= 3912,15$$

$$\begin{array}{r} 2608,1 \\ \cdot 1,5 \\ \hline 130405 \\ + 26081 \\ \hline 3912,15 \end{array}$$

427

pyöristä yhden desimaalin tarkkuuteen.

$$9,15678$$

$$\approx 9,2$$

a) $16,27 \approx 16,3$

b) $3,22 \approx 3,2$

c) $16,576 \approx 16,6$

432

a) $100 \cdot 3^2$
 $= 100 \cdot 9 = 900$

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

b) $(4+6)^4 = 10^4$
 $= 10 \cdot 10 \cdot 10 \cdot 10$
 $= 10000$

$$\begin{aligned} c) \quad & 10^3 + 7^2 \\ & = 1000 + 49 \\ & = 1049 \end{aligned}$$

438

$$a) \quad \sqrt{900} = 30$$

$$b) \quad \sqrt{-16} \quad \text{ei voi laskea}$$

$$c) \quad -\sqrt{4} = -2$$

$$d) \quad \sqrt{0,25} = 0,5$$

Murtoluvut s. 46 - 54

Desimaaliluvut s. 61 - 63

Pyöristäminen s. 64 - 66

Potenssi s. 67 - 69

Neliöjuuri s. 73 - 75