Arithmetik und Algebra

Lösungen

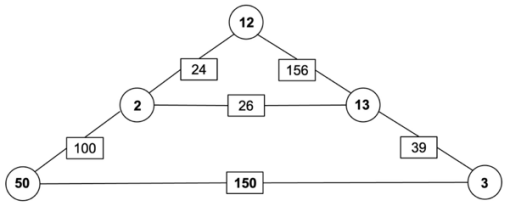
1. a) $\mathbf{1'000}$
   b) $\mathbf{9}$
   c) $\mathbf{1020}$
   d) $\mathbf{15}$

2. $\frac{\mathbf{25}}{\mathbf{4}}$

3. a) $\frac{1}{2} < \frac{7}{12} < \frac{2}{3} < \frac{6}{8} < \frac{5}{6} < \frac{25}{24}$
   b) $\left(-\frac{7}{8}\right) < \left(-\frac{5}{8}\right) < (-0.44) < \left(-\frac{2}{5}\right) < 1.5 < \frac{8}{5}$

4. a) $-\boldsymbol{a^5}$
   b) $-\mathbf{32}\boldsymbol{t} + \mathbf{6}\ \mathit{oder}\ \mathbf{6} - \mathbf{32}\boldsymbol{t}$
   c) $\frac{\boldsymbol{x^2}}{\mathbf{2}\boldsymbol{a^2}}$

5. a) $\boldsymbol{t} = \underline{\underline{\mathbf{1}}}$
   b) $\boldsymbol{x} = \underline{\underline{\mathbf{90}}}$

6. 

7. a) **800 m**
   b) **1 Minute**
   c) **500 m**
   d) **600 (m)**
   e) **sie muss warten**
   f) **16:40 Uhr**

8. $20'000 \cdot 80\% = 16'000$
   $16'000 \cdot 15\% = \mathbf{2'400}$

9. **3.6 h (oder 3h 36 min oder 216 min oder $\frac{\mathbf{18}}{\mathbf{5}}\boldsymbol{h}$)**

10. $\underline{\underline{\mathbf{241}}}$ **Besucher**

11. $\mathbf{4.76}\ \boldsymbol{ha}$
    $\mathbf{789.123}\ \boldsymbol{m^3}$

12. a) $\mathbf{10}$
    b) $\mathbf{6}$
    c) $\mathbf{30}$
    d) $\mathbf{24}$

13. a) $\frac{\mathbf{1}}{\mathbf{6}}$
    b) $\frac{\mathbf{1}}{\mathbf{6}}$
    c) $\frac{\mathbf{5}}{\mathbf{18}}$