

## ANTWOORDEN

### 1. Kwadraten met wortels

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

$$(\sqrt{3} \cdot \sqrt{5})^2 = 15$$

$$(\sqrt{2^2})^2 = 4$$

$$\left(\frac{2\sqrt{3}}{\sqrt{2}}\right)^2 = 6$$

$$\left(\frac{\sqrt{1}}{\sqrt{2}}\right)^2 = \frac{1}{2}$$

$$\left(\frac{\sqrt{2}}{\sqrt{3}}\right)^2 = \frac{2}{3}$$

$$(\sqrt{5} \cdot 4)^2 = 80$$

$$(3\sqrt{3})^2 = 27$$

$$(-\sqrt{2})^2 = 2$$

$$-(\sqrt{3} \cdot \sqrt{5})^2 = -15$$

### 2. Herleiden van wortels

$$\sqrt{28} = 2\sqrt{7}$$

$$\sqrt{300} = 10\sqrt{3}$$

$$\sqrt{99} = 3\sqrt{11}$$

$$\sqrt{160} = 4\sqrt{10}$$

$$\sqrt{54} = 3\sqrt{6}$$

$$\sqrt{288} = 12\sqrt{2}$$

$$\sqrt{80} = 4\sqrt{5}$$

$$\sqrt{360} = 6\sqrt{10}$$

$$\sqrt{98} = 7\sqrt{2}$$

$$\sqrt{243} = 9\sqrt{3}$$

### 3. Vermenigvuldigen van wortels

$$2\sqrt{3} \cdot 2\sqrt{12} = 24$$

$$\sqrt{5} \cdot -\frac{1}{5}\sqrt{10} = -\sqrt{2}$$

$$\frac{1}{3}\sqrt{2} \cdot \frac{3}{4}\sqrt{8} = 1$$

$$\sqrt{18} \cdot 2\sqrt{6} = 12\sqrt{3}$$

$$\frac{1}{15}\sqrt{5} \cdot \sqrt{20} = \frac{2}{3}$$

$$-\sqrt{2} \cdot -\sqrt{70} = 2\sqrt{35}$$

$$\sqrt{8} \cdot \frac{1}{32}\sqrt{8} = \frac{1}{4}$$

$$\sqrt{28} \cdot 2\sqrt{7} = 28$$

$$5\sqrt{10} \cdot \sqrt{40} = 100$$

$$-3\sqrt{38} \cdot \sqrt{18} = -18\sqrt{19}$$

#### 4. Wortels van breuken

$$\sqrt{\frac{4}{9}} = \frac{2}{3}$$

$$\sqrt{1\frac{2}{7}} = 3\sqrt{\frac{1}{7}}$$

$$\sqrt{2\frac{1}{4}} = \frac{3}{2}$$

$$\sqrt{\frac{1}{32}} = \frac{1}{4}\sqrt{\frac{1}{2}}$$

$$\sqrt{7\frac{1}{5}} = 6\sqrt{\frac{1}{5}}$$

$$\sqrt{9\frac{1}{9}} = \frac{1}{3}\sqrt{82}$$

$$\sqrt{4\frac{1}{6}} = 5\sqrt{\frac{1}{6}}$$

$$\sqrt{\frac{3}{98}} = \frac{1}{7}\sqrt{\frac{3}{2}}$$

$$\sqrt{\frac{9}{16}} = kn$$

$$\sqrt{\left(-\frac{2}{3}\right)^2} = \frac{2}{3}$$

#### 5. Wortels delen

$$\frac{\sqrt{50}}{\sqrt{2}} = 5$$

$$\frac{-\sqrt{20}}{\sqrt{4}} = -\sqrt{5}$$

$$\frac{\sqrt{200}}{\sqrt{5}} = 2\sqrt{10}$$

$$\frac{3\sqrt{60}}{\sqrt{5}} = 6\sqrt{3}$$

$$\frac{\sqrt{10}}{\sqrt{0,1}} = 10$$

$$\frac{-\sqrt{0,8}}{-\sqrt{0,2}} = 2$$

$$\frac{5\sqrt{300}}{3\sqrt{2}} = \frac{25}{3}\sqrt{6}$$

$$\frac{7\sqrt{200}}{3\sqrt{800}} = \frac{7}{6}$$

$$\frac{\sqrt{16}}{\sqrt{\frac{1}{4}}} = 8$$

$$\frac{\sqrt{135}}{-4\sqrt{15}} = -\frac{3}{4}$$

## 6. Wortels in de noemer wegwerken

$$\frac{2}{\sqrt{7}} = \frac{2}{7}\sqrt{7}$$

$$\frac{1}{3\sqrt{6}} = \frac{1}{18}\sqrt{6}$$

$$\frac{5}{\sqrt{5}} = \sqrt{5}$$

$$\frac{-8}{\sqrt{8}} = -2\sqrt{2}$$

$$\frac{5}{\sqrt{10}} = \frac{1}{2}\sqrt{10}$$

$$\frac{6\sqrt{5}}{3\sqrt{3}} = \frac{2}{3}\sqrt{15}$$

$$\frac{-3\sqrt{10}}{\sqrt{3}} = -\sqrt{30}$$

$$\frac{-3\sqrt{6}}{\sqrt{5}} = -\frac{3}{5}\sqrt{30}$$

$$\frac{-8}{6\sqrt{8}} = -\frac{1}{6}\sqrt{8}$$

$$\frac{\frac{1}{2}\sqrt{3}}{\sqrt{5}} = \frac{1}{10}\sqrt{15}$$