

1) Bekijk de uitlegvideo op: ► 86-ggd-2

$$2) \frac{2 \times \cancel{7}}{5 \times \cancel{7}} = \frac{2}{5}$$

$$\frac{5 \times \cancel{7}}{5 \times 11} = \frac{7}{11}$$

$$\frac{2 \times \cancel{5} \times \cancel{7}}{5 \times \cancel{7} \times 11} = \frac{2}{11}$$

$$\frac{\sqrt{16} \times 2}{11 \times \sqrt{16}} = \frac{2}{11}$$

$$\frac{3,14159 \times \sqrt{4}}{\sqrt{4} \times 3,14159} = 1$$

Ontbind in priemfactoren:

$$21 = 3 \times 7$$

Ontbind in priemfactoren:

$$66 = 2 \times \cancel{3} \times 11$$

Vul nu in:

$$\frac{21}{66} = \frac{\cancel{3} \times 7}{2 \times \cancel{3} \times 11} = \frac{7}{2 \cdot 2 \cdot 11}$$

$$\text{ggd}(21, 66) = 3$$

Ontbind in priemfactoren:

$$78 = 2 \times \cancel{3} \times 13$$

Ontbind in priemfactoren:

$$264 = 2 \times \cancel{13} \times 2 \times 66$$

$$= 2 \times 2 \times 2 \times \cancel{3} \times 11$$

Vul nu in:

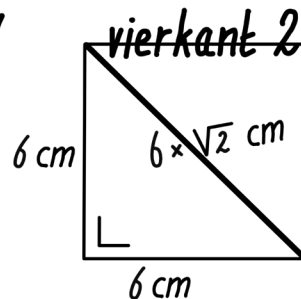
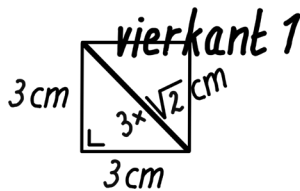
$$\frac{78}{264} = \frac{\cancel{2} \times \cancel{3} \times 13}{2 \times 2 \times 2 \times \cancel{3} \times 11} = \frac{13}{44}$$

$$\text{ggd}(78, 264) = 6$$

$$3) \sqrt{9} = 3 \text{ want } 3 \times 3 = 9$$

$$\sqrt{2} \approx 1,414 \text{ want } 1,414 \times 1,414 \approx 2$$

4)



De diagonaal van een vierkant is altijd precies wortel 2 keer langer dan de zijde van dat vierkant, dus ongeveer 1,4 keer langer.

$$\text{zijde 1 staat tot zijde 2} = 3 \text{ cm} : 6 \text{ cm} = 1 : 2 \text{ staat tot } 2$$

$$\text{diagonaal 1 staat tot diagonaal 2} =$$

$$\text{diagonaal 1} : \text{diagonaal 2} =$$

$$\frac{\text{diagonaal 1}}{\text{diagonaal 2}} = \frac{3 \times \sqrt{2} \text{ cm}}{6 \times \sqrt{2} \text{ cm}} = \frac{3}{6} = \frac{1}{2} = 1 : 2 = 1 \text{ staat tot } 2$$

$$5) \text{ggd}(2, 6) = 2$$

$$\text{ggd}(5, 15) = 5$$

$$\text{ggd}(22, 33) = 11$$