

**Ontbind in priemfactoren**

De overige vragen zijn een herhaling van onmisbare kennis en vaardigheden.

1)  $9 = 3^2$

6)  $63 = 3 \cdot 21 = 3 \cdot 3 \cdot 7 = \underline{\underline{3^2 \cdot 7}}$

2)  $9^5 = (3^2)^5 = 3^{10}$

7)  $240 = 10 \cdot 24 = 2 \cdot 5 \cdot 4 \cdot 6 = 2 \cdot 5 \cdot 2^2 \cdot 2 \cdot 3 = \underline{\underline{2^4 \cdot 3 \cdot 5}}$

3)  $4^8 = (2^2)^8 = \underline{\underline{2^{16}}}$

8)  $88 = 8 \cdot 11 = \underline{\underline{2^3 \cdot 11}}$

4)  $8 = 2 \cdot 4 = \underline{\underline{2^3}}$

9)  $150 = 10 \cdot 3 \cdot 5 = 2 \cdot 5 \cdot 3 \cdot 5 = \underline{\underline{2 \cdot 3 \cdot 5^2}}$

5)  $16 = 2 \cdot 8 = 2 \cdot 2 \cdot 4 = \underline{\underline{2^4}}$

10)  $90 = 10 \cdot 9 = 2 \cdot 5 \cdot 3^2 = \underline{\underline{2 \cdot 3^2 \cdot 5}}$

11)  $(9^4 \cdot 7^2)^2 = 9^8 \cdot 7^4 = \underline{\underline{3^{16} \cdot 7^4}}$

16)  $2400 = 3 \cdot 8 \cdot 10^2 = 3 \cdot 2^3 \cdot 10^2 = 3 \cdot 2^3 \cdot 2^2 \cdot 5^2 = \underline{\underline{2^5 \cdot 3 \cdot 5^2}}$

12)  $121 = \underline{\underline{11^2}}$

17)  $99 = 9 \cdot 11 = \underline{\underline{3^2 \cdot 11}}$

13)  $1000 = 10^3 = (2 \cdot 5)^3 = \underline{\underline{2^3 \cdot 5^3}}$

18)  $30.000 \text{ cm}^3 = \underline{\underline{30}} \dots \text{ liter } (30 \text{ dm}^3)$

14)  $500 = 5 \cdot 100 = 5 \cdot 10^2 = 5 \cdot 2^2 \cdot 5^2 = \underline{\underline{2^2 \cdot 5^3}}$

19)  $44 \text{ km}^2 = \underline{\underline{44 \cdot 10^6}} \text{ m}^2$

15)  $7 \cdot (4^4 \cdot 7^2)^8 = 7 \cdot 4^{32} \cdot 7^{16} = \underline{\underline{2^{64} \cdot 7^{17}}}$

20)  $16\frac{2}{7} + 2\frac{3}{7} = \underline{\underline{18\frac{5}{7}}}$

21)  $((20^2)^3)^2 = 20^{12} = (4 \cdot 5)^{12} = 4^{12} \cdot 5^{12} = \underline{\underline{2^{24} \cdot 5^{12}}}$

22)  $2 \cdot (12^4 \cdot 7^2)^2 = 2 \cdot 12^8 \cdot 7^4 = 2 \cdot (3 \cdot 4)^8 \cdot 7^4 = 2 \cdot 3^8 \cdot 4^8 \cdot 7^4 = \underline{\underline{2^{17} \cdot 3^8 \cdot 7^4}}$

23)  $3\frac{2}{5} \times 1\frac{2}{17} = \frac{17}{5} \times \frac{19}{17} = \frac{19}{5} = \underline{\underline{3\frac{4}{5}}}$

24)  $3\frac{2}{5} : \frac{17}{21} = \frac{17}{5} : \frac{17}{21} = \frac{17}{5} \times \frac{21}{17} = \frac{21}{5} = \underline{\underline{4\frac{1}{5}}}$

25)  $20\% \text{ van } 45 = \frac{1}{5} \times 45 = \underline{\underline{9}}$