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a. $10^5 = 100\ 000$

c. $10^0 = 1$

e. $10^6 = 1\ 000\ 000$

b. $10^{10} = 10\ 000\ 000\ 000$

d. $-10^1 = -10$

f. $-10^4 = -10\ 000$

26

a. $10\ 000 = 10^4$

b. $10\ 000\ 000 = 10^7$

c. $1 = 10^0$

d. cent = 100 = 10^2

e. cent mille = 100 000 = 10^5

f. mille milliards = 1 000 000 000 000 = 10^{12}

27

45×10^5

4 500 000

$4,5 \times 10^3$

4 500

$0,045 \times 10^9$

45 000 000

45×10^0

45

28

$8,76 \times 10^6 = 8\ 760\ 000$

$-1,2 \times 10^4 = -12\ 000$

$-3,6 \times 10^1 = -36$

$6\ 000 \times 10^0 = 6\ 000$

30

a. $P = 10\,000 \times 300 \times 4\,500\text{ W}$

$$P = 13\,500\,000\,000\text{ W}$$

$$P = 13,5 \times 10^9\text{ W}$$

$$P = 13,5\text{ GW}$$

b. $P = 456 \times 10^3 \times 4 \times 10^5\text{ W}$

$$P = 182\,400\,000\,000\text{ W}$$

$$P = 182,4 \times 10^9\text{ W}$$

$$P = 182,4\text{ GW}$$

c. $P = 3 \times 10^6 + 345 \times 10^3\text{ W}$

$$P = 3\,000\,000 + 345\,000\text{ W}$$

$$P = 3\,345\,000\text{ W}$$

$$P = 3,345 \times 10^6\text{ W}$$

$$P = 3,345\text{ MW}$$

MODE EXPERT

31

a. $4\text{ km } 5\text{ hm } 3\text{ m} = 4 \times 10^3\text{ m} + 5 \times 10^2\text{ m} + 3\text{ m} = 4\,000\text{ m} + 500\text{ m} + 3\text{ m}$

$$4\text{ km } 5\text{ hm } 3\text{ m} = 4\,503\text{ m}$$

b. $56\text{ MA} + 768\text{ kA} + 5\text{ hA} + 23\text{ A} = 56 \times 10^6\text{ A} + 768 \times 10^3\text{ A} + 5 \times 10^2\text{ A} + 23\text{ A}$

$$56\text{ MA} + 768\text{ kA} + 5\text{ hA} + 23\text{ A} = 56\,768\,523\text{ A}$$

32

a. $395\,099\,154 - 3 \times 10^1 - 8 \times 10^4 + 2 \times 10^5 = 395\,099\,154 - 30 - 80\,000 + 200\,000$

$$395\,099\,154 - 3 \times 10^1 - 8 \times 10^4 + 2 \times 10^5 = 395\,219\,124$$

b. $314 \times 10^5 + 9 \times 10^7 - 10^6 = 31\,400\,000 + 90\,000\,000 - 1\,000\,000$

$$314 \times 10^5 + 9 \times 10^7 - 10^6 = 120\,400\,000$$