

BASE10: Dissecting a number

73,548

$$8 \text{ ones} = 8 \times 1 = 8 \times 10^0$$

$$4 \text{ tens} = 4 \times 10 = 4 \times 10^1$$

$$5 \text{ hundreds} = 5 \times 100 = 5 \times 10^2$$

$$3 \text{ thousands} = 3 \times 1000 = 3 \times 10^3$$

$$7 \text{ ten thousands} = 7 \times 10,000 = 7 \times 10^4$$