

EXPRESSING WHOLE NUMBERS IN EXPANDED FORM

Ways of expanding numbers

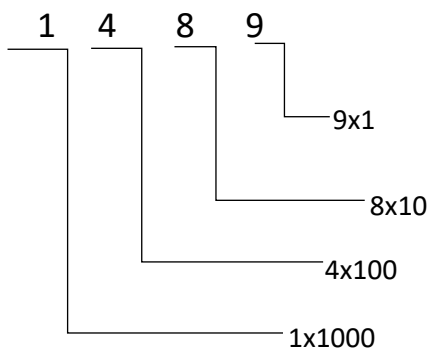
1. Using place values
2. Using values
3. Using powers of ten / exponents.

Examples

1. Express 1489 in expanded form using place values.

Solution

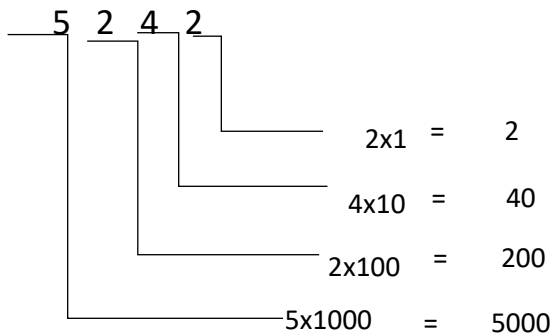
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$$= (1 \times 1000) + (4 \times 100) + (8 \times 10) + (9 \times 1)$$

2. Expand 5242 using values.

Solutions



$$= 5000 + 200 + 40 + 2$$

3. Expand 48,269 using powers of ten

4	8	2	6	9
10^4	10^3	10^2	10^1	10^0

$$(4 \times 10^4) + (8 \times 10^3) + (2 \times 10^2) + (6 \times 10^1) + (9 \times 10^0)$$