

$$a \times b = a \cup b \cup a$$

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Inter operations re arithmetic se by using althas

$$a + b = (a \cap b) + (a \cup b)$$

$$a \times b = (a \cup b) - (a \cap b)$$

$$10 = 8 + 2 = 2^3 + 2^1 = !..!$$

$$100 = 64 + 32 + 4 = 2^6 + 2^5 + 2^2 = !!..!..!$$

$$1000 = 512 + 256 + 128 + 64 + 32 + 8 = 2^9 + 2^8 + 2^7 + 2^6 + 2^5 + 2^3$$

$$268 = 256 + 64 + 32 + 8 + 4 + 1 = 2^8 + 2^6 + 2^5 + 2^3 + 2^2 + 2^0 = !!!..!!..!$$

$$100 \cap 268$$

$$10 \cap 100 = 0$$

$$100 \cap 1000 = 64 + 32 = 96$$

$$100 \cap 1000 = 512 + 256 + 128 + 64 + 32 + 8 + 4$$

$$= 1000 + 4 = 1004$$

$$100 \times 1000 = 512 + 256 + 128 + 8 + 4 = 908$$

$$\text{Proof } 100 + 1000 = 96 + 1004$$

$$908 = 1004 - 96$$