

Binary Practice Homework

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128 64 32 16 8 4 2 1

$$5 = 101$$

$$5 - 4 = 1$$

$$1 - 0 = 1$$

$$1 - 1 = 0$$

$$10 = 1010$$

128 64 32 16 8 4 2 1

$$10 - 8 = 2$$

$$2 - 2 = 0$$

$$32 = 100000$$

128 64 32 16 8 4 2 1

$$294 = 100100010$$

512 256 128 64 32 16 8 4 2 1

$$294 - 256 = 38$$

$$38 - 36 = 2 \quad 2 - 2 = 0$$

$$00100011 = 35$$

128 64 32 16 8 4 2 1

$$32 + 2 + 1 = 35$$

$$00010010 = 18$$

$$2 + 16 = 18$$

$$00110111 = 55$$

$$1 + 2 + 4 + 0 + 16 + 32 = 55$$

$$11111110 = 254$$

$$128 + 64 + 32 + 16 + 8 + 4 + 2 = 254$$