

$$S_8 = \frac{1}{5.1} = 5.1$$

$$S_8 = \frac{1-2}{0.02(1-256)}$$

$$S_8 = \frac{1-q}{b^8(1-q^8)}$$

$$b_7 = \frac{128}{2.56} = 0.02$$

$$b_8 = \frac{b_7}{8}$$

$$b_1 = \frac{b_8}{q^n}$$

$$b_7 = b_8 \cdot q^{n-1}$$

$$b_8 = 2.56, q = 2$$

$$x = \frac{1}{2}$$

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