

Reise 2 Conversion

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$$\bullet 1101_2$$

$$\bullet d_{16}$$

$$\bullet \overline{110100}$$
$$\bullet 64_8$$

$$\bullet 64_8 = \frac{6}{8} + \frac{4}{64} = \frac{48}{64} + \frac{4}{64} = \frac{52}{64}$$

$$\bullet 8125_{10}$$

Base 10 conversion

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•25 base 10

$$\begin{array}{r} \cdot 25 \times 16 = \underline{4.0} \end{array}$$

$$\boxed{\cdot 4_{16}}$$

$$\begin{array}{r} \cdot 25 \times 8 = \underline{2.0} \end{array}$$

$$\boxed{\cdot 2_8}$$

$$\cdot 4_{16}$$

$$\boxed{\cdot 0100_2}$$

Base 8 conversion

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$.25_8$

$$.25_8 = \frac{2}{8} + \frac{5}{8^2} = \frac{1}{4} + \frac{5}{64} = \frac{16}{64} + \frac{5}{64} = \frac{21}{64}$$

$$= .328125_{10}$$

$$.328125 \times 16 = \underline{5.25}$$

$$.25 \times 16 = 4.0$$

$$= .84_{16}$$

$.84_{16}$

$$= .01010100_2$$

Base 16 Conversion

$$.25_{16}$$

$$= .00100101_2$$

$$.001001010_2$$

$$= .112_8$$

$$.112_8 = \frac{1}{8} + \frac{1}{64} + \frac{2}{512} = \frac{64}{512} + \frac{8}{512} + \frac{2}{512} = \frac{74}{512}$$

$$.1445812_{10}$$

Algebra
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• 25 base 10 to base 2, 8, 16

McDonald
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• $25_{10} \times 16 = 4.0$

~~• 25×2~~

• $25_{10} \times 2 = 0.5$

• $25_{10} = \boxed{.4_{16}}$

• $.4_{16}$

• $.5 \times 2 = 1.0$

• $25_{10} \times 8 = 2.0$

• $25_{10} = .0100_2$

• $.0100_2$

• $25_{10} = \boxed{.2_8}$

• 25_{10}
• $.4_{16}$
• $.2_8$
• $.0100_2$

• 25 base 8 to base 2, 8, 16

• $25_8 = \frac{2}{8} + \frac{5}{8^2} = \frac{1}{4} + \frac{5}{64} = \frac{16}{64} + \frac{5}{64} = \frac{21}{64}$

• $.328125_{10}$

$\times 16 = 5.25$

$= .54_{16}$

• $.5 = .0101$
• $.04 = .0000100$

• $25 \times 16 = 4.0$

• $.01010100_2$

• $.328125_{10}$
• $.54_{16}$
• $.25_8$
• $.01010100_2$

• 25 base 16 to base 2, 8, 16

• 25_{16}
• $.00100101_2$

• $25_{16} =$
 $= .00100101_2$

• 25_{16}
• $.00100101_2$
• $.112_8$
• $.1445312_{10}$

• $.112_8$

$= \frac{1}{8} + \frac{1}{8^2} + \frac{2}{8^3} = \frac{1}{8} + \frac{1}{64} + \frac{2}{512} = \frac{64}{512} + \frac{8}{512} + \frac{2}{512} =$

• 1101_2 base 2 to 8, 16, 10

• $.1445312_{10}$

• $.d_{16}$ • $.64_8$

• $.110100$
• $.1101$

$\frac{6}{8} + \frac{4}{64} = \frac{48}{64} + \frac{4}{64} = \frac{52}{64}$

$= .8125_{10}$