

LEMOYNE-OWEN COLLEGE
DIVISION OF NATURAL SCIENCES, MATHEMATICS AND COMPUTER SCIENCE

MATH 120
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Quiz 4

Show your work

Name: _____

1. Write 2093 in expanded form.

$$2093 = \underline{\quad} \times 10^{(\quad)} + \underline{\quad} \times 10^{(\quad)} + \underline{\quad} \times 10^{(\quad)} + \underline{\quad} \times 10^{(\quad)}$$

2. Simplify the following expansion.

$$7 \times 10^4 + 1 \times 10^3 + 6 \times 10^2 + 9 \times 10^1 + 2 \times 10^0 = \underline{\hspace{2cm}}$$

3. Convert 256_{seven} to a decimal form (base ten).

- (a) By expanding in powers:

$$\underline{\quad} \times 7^2 + \underline{\quad} \times 7^1 + \underline{\quad} \times 7^0 = \underline{\hspace{2cm}}.$$

- (b) By using the calculator shortcut:

$$(\underline{\quad} \times 7 + \underline{\quad}) \times 7 + \underline{\quad} = \underline{\hspace{2cm}}.$$

4. Convert $A52E_{\text{sixteen}}$ to a decimal form (base ten).

5. Convert 7034 to base eight.