

Instructions: Show all work. Give exact answers (improper fractions) and do no round unless specifically asked to do so. If you work the problem in your calculator you can write keystrokes to show work for partial credit.

1. Perform the following operations without a calculator.

a. $24,731 + 592 + 3,868$

$$\begin{array}{r} 24,731 \\ 592 \\ 3,868 \\ \hline 29,191 \end{array}$$

29,191

b. $35,162 - 7,885$

$$\begin{array}{r} 35,162 \\ - 7,885 \\ \hline 27,277 \end{array}$$

27,277

c. 247×139

$$\begin{array}{r} 46 \\ 247 \\ 139 \\ \hline 2223 \\ 741 \\ 247 \\ \hline 34,333 \end{array}$$

34,333

d. $\frac{83,256}{8}$

$$\begin{array}{r} 10407 \\ 8 \overline{) 83256} \\ \underline{8} \\ 32 \\ \underline{32} \\ 056 \end{array}$$

10,407

2. Simplify the expression $5(2 + 8 \cdot 4) - 7^2$ using order of operations.

$$5(2 + 32) - 49 = 5(34) - 49 = 170 - 49 = 121$$