

Prob/Stat/Discrete
11.3 Worksheet

Name_____

In Exercise 1-4, add in the indicated base.

$$\begin{array}{r} 1. \quad 11_{\text{two}} \\ + 11_{\text{two}} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 6784_{\text{nine}} \\ + 7865_{\text{nine}} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 323_{\text{five}} \\ + 421_{\text{five}} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 53B_{\text{sixteen}} \\ + 694_{\text{sixteen}} \\ \hline \end{array}$$

In Exercises 5-8, subtract the indicated base.

$$\begin{array}{r} 5. \quad 23_{\text{five}} \\ - 14_{\text{five}} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 1001_{\text{two}} \\ - 111_{\text{two}} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 712_{\text{nine}} \\ - 483_{\text{nine}} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 4C6_{\text{sixteen}} \\ - 198_{\text{sixteen}} \\ \hline \end{array}$$

In Exercises 9-11, multiply the indicated base.

$$\begin{array}{r} 9. \quad 11_{\text{two}} \\ \times 1_{\text{two}} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 21_{\text{four}} \\ \times 12_{\text{four}} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 243_{\text{nine}} \\ \times 6_{\text{nine}} \\ \hline \end{array}$$

In Exercise 12, use the multiplication tables shown below to divide in the indicated base.

MULTIPLICATION: BASE FOUR

×	0	1	2	3
0	0	0	0	0
1	0	1	2	3
2	0	2	10	12
3	0	3	12	21

$$12. \quad 2_{\text{four}} \overline{) 321_{\text{four}}}$$