Section 4.3: Operations in different bases

1. Find the following:

a) $3426_{\text{seven}} + 635_{\text{seven}}$

b) $2351_{\text{seven}} - 526_{\text{seven}}$

c) $4312_{\text{five}} + 2434_{\text{five}}$

d) $7T9E_{\text{twelve}} + 8ET6_{\text{twelve}}$

e) $63F4_{\text{sixteen}} - 3B9E_{\text{sixteen}}$

f) $5374_{\text{nine}} - 2687_{\text{nine}}$

2. Complete the following multiplication table in base seven.

×	0	1	2	3	4	5	6
0							
1							
2							
3							
4							
5							
6							

3. Using the table in (3), find the following:

a) 425_{seven}
$\times\ 62_{\text{seven}}$

b) 324_{seven}
$\times\ 256_{\text{seven}}$

4. Using the table in (3), find the following:

   (a) $26_{\text{seven}} \div 5_{\text{seven}} =$

   (b) $24_{\text{seven}} \div 3_{\text{seven}} =$

   (c) $2256_{\text{seven}} \div 5_{\text{seven}} =$

   (d) $22641_{\text{seven}} \div 3_{\text{seven}} =$

   (e) $243621_{\text{seven}} \div 4_{\text{seven}} =$