

# 1 Numbers in other bases - practice

*Sharpen your calculation skills in other bases*

For reference, our convention for base-26 is to use the letters  $A - Z$  as the digits  $0 - 25$ :

Instructions: Calculate the sum, difference, product, or quotient & remainder. Your answer should be in the starting base unless otherwise specified.

**Question 1**  $(143)_7 + (53)_7 = ( \quad )_7$

**Question 2**  $(4671)_8 + (327)_8 = ( \quad )_8$

**Question 3**  $(APPLE)_{26} + (WINDOWS)_{26} = ( \quad )_{26}$

**Question 4**  $(451)_9 - (332)_9 = ( \quad )_9$

**Question 5**  $(11011001)_2 - (11011)_2 = ( \quad )_2$

Table 1: Digits for base-26.

$A$	$B$	$C$	$D$	$E$	$F$	$G$	$H$	$I$	$J$	$K$	$L$	$M$
0	1	2	3	4	5	6	7	8	9	10	11	12
$N$	$O$	$P$	$Q$	$R$	$S$	$T$	$U$	$V$	$W$	$X$	$Y$	$Z$
13	14	15	16	17	18	19	20	21	22	23	24	25