1) $2 \cdot 3 + 2 \cdot 3^3 + 1 \cdot 3^4 = 6 + 54 + 81 = 141$ ✓ $(12020)_3 = (141)_{10}$

$\qquad$ 4b (20 ?)

2) $16.14 : 7 = 230$ $\qquad$ 4 ✓ $\qquad$ $(1614)_{10} = (4464)_7$ ✓

$\quad 230 : 7 = 32$ $\qquad$ 6 ✓

$\quad 32 : 7 = 4$ $\qquad$ 4 ✓ $\qquad$ 5b $(z5)$

$\quad 4 : 7 = 0$ $\qquad$ 4 ✓

3) $\quad 123$
$\quad \underline{212}$ ✓ $\qquad$ 3b $(z3)$
$\quad 1001$ ✓✓

7) $\quad 302$
$\quad \underline{\cdot 31}$
$\quad 302$ ✓ $\qquad$ Bonus: 3b $(z3)$
$\quad 1310$ ✓
$\quad \underline{1310}$
$\quad 13402$ ✓

4) $\quad 11101$
$\quad \underline{101}$ $\qquad$ 4b (20 ?)
$\quad 11101$ ✓
$\quad 00000$ ✓
$\quad \underline{11101}$ ✓
$\quad 1001001$ ✓ ✓

$\qquad \frac{1}{2} 24 + 33 = \boxed{276}$

$\qquad \textcircled{1}$

5) a) MMDCCXCIV $\underline{2b}$ $(z2)$

b) DCCCXCVI $\underline{2b}$ $(z2)$

6) a) 3569 $\underline{2b}$ $(z2)$

b) 7401 $\underline{2b}$ $(b2)$