

Student 6: High Not Achieved
NZQA Intended for teacher use only

Xena 2 μg A
3 mg C
5 mg E

Yum 4 μg A
7 mg C
9 mg E

Zany 5 μg A
10 mg C
14 mg E

Roger wants
1000 μg A
1600 mg C
2400 mg E

Equation

	Xena	Yum	Zany	
① A	2	4	5	= 1000
② C	3	7	10	= 1600
③ E	5	9	14	= 2400

Equation

- ① $2x + 4y + 5z = 1000$
- ② $3x + 7y + 10z = 1600$
- ③ $5x + 9y + 14z = 2400$

①