



1) a)

Tens		Ones
10	10	1
10	10	1
10	10	1
10	10	1

1 1 1

$$\boxed{87} \div \boxed{4} = \boxed{21} \text{ remainder } \boxed{3}$$

b)

Tens	Ones	
10	1	1
10	1	1
10	1	1
10	1	1
10	1	1
10	1	1
10	1	1
10	1	1
10	1	1

1 1

$$\boxed{98} \div \boxed{8} = \boxed{12} \text{ remainder } \boxed{2}$$

2) There are **17** strawberries.

There are **5** groups with **3** strawberries in each group.

There are **2** strawberries left over.

$$17 \div 3 = 5 \text{ remainder } 2$$

4) There are **52** pages.

She will read **5** pages a night for **10** nights.

There will be **2** pages left for the last night.

$$52 \div 5 = 10 \text{ remainder } 2$$

1) *Marshall is not correct as he has forgotten to include the remainder in his answer. The jumps of 3 do not land exactly on 0 – they stop at 2. The answer should be 10 remainder 2.*

2) *Alex has not divided it into four equal groups – three of the groups have counters with a value of 12, but one has counters with a value of 11.*

*Children may also comment that, as 47 is an odd number and not a multiple of 4, it cannot be exactly divisible by 4.*

*Alex should remove one counter from the top three groups to create 4 groups of 11 and a remainder of 3. The answer will then be 11 remainder 3.*

3) *Ajay is correct, as the remainder in a division cannot be greater than the number you are dividing by. If Katie had a remainder of 4, she would be able to make one more group of 3 to leave a remainder of 1.*





- 1) a)  $26 \div 5$   
 b)  $35 \div 4$ ,  $47 \div 4$ ,  $59 \div 4$ ,  $35 \div 8$ ,  $59 \div 8$   
 c)  $35 \div 5$   
 d)  $26 \div 4$ ,  $47 \div 5$ ,  $59 \div 5$ ,  $26 \div 8$   
 a) There are twelve possible calculations:

No remainder:	Remainder:
$22 \div 2 = 11$	$17 \div 2 = 8 \text{ r } 1$
$38 \div 2 = 19$	$17 \div 4 = 4 \text{ r } 1$
$40 \div 2 = 20$	$17 \div 5 = 3 \text{ r } 2$
$40 \div 4 = 10$	$22 \div 4 = 5 \text{ r } 2$
$40 \div 5 = 8$	$22 \div 5 = 4 \text{ r } 2$
	$38 \div 4 = 9 \text{ r } 2$
	$38 \div 5 = 7 \text{ r } 3$

- b) If the number ends in 5 or 0, it will divide into 5 with no remainder. Otherwise, there will be a remainder.  
 c) If it is an even number, it will divide into 2 with no remainder. If it is an odd number, there will be a remainder.