



- 1) $372 \div 17 = 21r15$
 $856 \div 23 = 37r5$
 $738 \div 32 = 23r2$
 $647 \div 13 = 49r10$
- 2) a) **21 rows of children.**
The last row will only have 4 children sat in it.
- b) **28 cups of lemonade.**
The headteacher will have 4p left over.
- c) **31 packs.**
There will be 6 additional pencils from the last pack.



- 1) **Accept an explanation that shows that Elsa is correct.**
850ml \div 65 = 13 bottles with 5ml left over. So that there isn't any wasted lemonade, the last bottle will only contain 5ml.
- 2) $495 \div 15 = 33$ $367 \div 15 = 24r7$
 $855 \div 15 = 57$ $954 \div 15 = 63r9$

Only two of these calculations will leave a remainder because the other two questions have dividends which are multiples of 15.

True – only 954 and 367 are not divisible by 15 and will therefore leave a remainder. 855 and 495 are both multiples of 15.

One of these calculations has a remainder which is odd.

False – both calculations that have a remainder, have remainders that are odd numbers.

Two of these calculations can also be divided by 45 without leaving a remainder.

True – both of the numbers which are multiples of 15 are also multiples of 45.



- 1) a) **Accept: 108, 123, 138, 153, 168, 183, 198, 213, 228, 243, 258, 273 and 288.**
- b) **Accept: 211, 230, 249, 268 and 287.**
- c) **Accept: 132, 164, 196, 228, 260, 292 and 324.**
- 2) **Answers will vary but could include examples such as:**
- 275 will leave a remainder with every divisor except 11.**
- 767 will leave a remainder with every divisor except 13.**
- 350 will only leave no remainder with 10 and 14.**