

BACKTERFRONT

The number 2701 is one of an interesting group 'number reversed and multiplied':

$$37 \times 73 = 2701$$

But what if we're told that, say 6786, is another and we're asked what are the two multiplied numbers?

Not difficult; note which digit couples (7 and 3, above) have six in the units place when multiplied, because 6786 ends in six (ignore boring examples such as 6×6).

There always just a few possible couples and one of them gives the answer for us:

$$1 \times 6, \quad 2 \times 3, \quad 2 \times 8, \quad 4 \times 9, \quad 7 \times 8$$

We might try all the possibles, starting with 16×61 , and find it is the final couple that suits us:

$$78 \times 87 = 6786$$

So, which number couples multiply to these numbers:

ANSWERS:

2668	29 x 92
1458	18 x 81
1008	24 x 42
403	13 x 31
8722	89 x 98
3478	47 x 74
2268	36 x 63
2668	29 x 92
1462	43 x 34