## ‘Betrothed’ Numbers

48 and 75 are ‘betrothed’.

This happy couple have a relationship because the factors of 48 are 1, 2, 3, 4,12,16, 24 and 48.

The sum of the factors of 48, except for 1 and 48 is 2 + 3 + 4 + 6 + 8 + 12 + 16 + 24 = 75.

The sum of the factors of 75, except 1 and itself is, you guessed it, 48. How cute!!

### Which of the following pairs are also betrothed?

1. 84 and 88
2. 140 and 195
3. 108 and 171
4. 1575 and 1648