**Multiplication and Division Unit 2**

**Problem solving and reasoning questions**

Selma says ‘The bigger a number, the more pairs of factors it has’. Do you agree with her? Explain your ideas.

What one number does the letter ‘***a***’ stand for in each of these number sentences?

***a*** x 6 = ***a*** + 40

7 x ***a*** = 60 take away ½ of ***a***

Always true, sometimes true or never true?

* A number with only two factors is odd.
* A number with 4 factors is even.
* A number less than 100 with 6 factors is even.
* A number with 6 as one of its factors, also has 3 as a factor.
* An odd number can have 2 as a factor.