**Template 5 - Recognising Patterns**

**What are the missing numbers in the following patterns? Describe the pattern e.g. multiply by 2 etc.**

|  |  |
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| **Missing numbers** | **Describe pattern** |
| 1. 6, 12, 24, 48 , 96 , 192
 | **Multiplying by 2** |
| 1. 8, 4, 2, 1, $\frac{1}{2}$ , $\frac{1}{4}$ , $ \frac{1}{8}$ , $\frac{1}{16} , $
 | **Dividing by 2** |
| 1. 1, $\frac{1}{4}$ , $ \frac{1}{16}$ , $\frac{1}{64}$ , $ \frac{1}{256}$ , $\frac{1}{1024}$, $ \frac{1}{4096}$
 | **Dividing by 4** |
| 1. 4, 16, 64 , 256, 1024, 4096
 | **Multiplying by 4** |
| **Challenge Questions**1. 3, 9, 27 , 81 , 243 , 729
 | **Multiplying by 3** |
| 1. $\frac{1}{3}$ , $\frac{1}{9}$ , $\frac{1}{27}$ , $\frac{1}{81}$ , $\frac{1}{243}$ , $\frac{1}{729} $
 | **Dividing by 3** |