**Number Properties Homework**

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| **Literacy – Write a definition of these terms****Prime number:****Square number:** | **Research**What is the 100th triangle number?Find the formula for the triangle numbers.  | **Memory*** Memorise “I ate and ate till I was sick on the floor” to remind you that \_\_\_\_=64.
* For $13^{2}$ and $14^{2}$ just swap the last 2 digits.
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| **Skills**

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| Do not use a calculate to work out: |  |
| 1. $5^{2}+3^{2}$
 | 1. $12^{2}-3^{3}$
 |
| 1. $5^{3}+2^{3}$
 | 1. $3^{0}×4^{3}$
 |
| 1. $\sqrt{169}$
 | 1. $\sqrt{400}$
 |
| 1. $\frac{12^{2}}{6^{2}}$
 | 1. $\sqrt[3]{64}$
 |
| 1. $\sqrt[3]{1}$
 | 1. $\sqrt[3]{27}$
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 | **Stretch**Find the value of:1. $\sqrt{16 900}$
2. $\sqrt{40 000}$
3. $\sqrt[3]{1000}$
4. $\sqrt[4]{16}$
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