**MATHEMATICS**

**Grade 10**

**Week 1 to 5 June 2020**

Do revision on factorisation that was done in Term 1.

This is a very important section in Mathematics!!!

Remember – PRACTICE MAKES PERFECT.

Exercise

Factorise the following questions in full.

|  |  |
| --- | --- |
| 1 |  $-6px^{2} + 12px$ |
| 2 | $$4a^{2}- 8ab^{3}$$ |
| 3 | $$5a^{2}-125b^{2 }$$ |
| 4 | $x^{2} - y^{2}$  |
| 5 | $$x^{2} + y^{2} $$ |
| 6 | $$\frac{e^{2}}{25} - \frac{f^{2}}{36} $$ |
| 7 | $$ 2a^{2}b-ab-a$$ |
| 8 | $$g^{2} - 5g - 6$$ |
| 9 | $$g^{2} - 5g + 6$$ |
| 10 | $$15+10y-4xy-6x$$ |
| 11 |  $5x^{2}- x$Using the above answer as a hint now factorise $$5\left(y - 3\right)^{2} - \left(y - 3\right)$$ |
| 12 | $$\left(5y+1\right)^{2}-4\left(y-1\right)^{2}$$Try to do this in 2 different ways. |
| 13 | $$x^{3}-z^{3}$$ |
| 14 | $$\left(2x-3\right)^{2}+5\left(3-2x\right)-14$$ |
| 15 | $$\frac{1}{x^{-2}}-\frac{6}{x^{-1}}+9$$ |
| 16 |  $\frac{x^{3}}{27} + \frac{y^{3}}{8}$ |