1. Integers

- 1. The sum of two numbers exceeds their product by one. Their difference is equal to their product less five. Find the two numbers. (3mks)
- 2. 3x 1 > -4 $2x + 1 \le 7$
- 3. Find the value of x $2^{(x-3)} \times 8^{(x+2)} = 128$
- 4. Evaluate $\frac{-12 \div (-3) \times 4 (-15)}{-5 \times 6 \div 2 + (-5)}$
- 5. Without using a calculator/mathematical tables, evaluate leaving your answer as a simple fraction

- 6. Given that $\mathbf{P} = \begin{pmatrix} -2 & 3 \\ -1 & 4 \end{pmatrix}$ and $\mathbf{R} = \begin{pmatrix} 1 & 3 \\ 0 & 2 \end{pmatrix}$ and if $\mathbf{Z} = \mathbf{P}^{-1}\mathbf{R}$. Find \mathbf{Z}
- 7. Evaluate $-8 \div 2 + 12 \times 9 4 \times 6$ $56 \div 7 \times 2$