

REVISION WORKSHEET 3**[27]****Grade 11 - RATIONALIZING THE DENOMINATOR**

When completing these revision questions keep in mind that you are aiming for a work pace of 'a mark a minute'. You should therefore aim to complete each of the following questions according to the specific mark allocation. Remember that if you spend too much time on one question, you will fall behind time wise and it is often difficult to make that time up later in the paper.

Practice frequently to improve your understanding and complete your work quickly but correctly.

EXERCISE

Simplify the following by rationalizing the denominator

1. $\frac{2 + \sqrt{8}}{\sqrt{2}}$ (5)

2. $\frac{\sqrt{\sqrt{64}} - \sqrt{12}}{\sqrt{18} - \sqrt{27}}$ (6)

3. $\frac{(2 + \sqrt{3})(4 - \sqrt{3})}{\sqrt{100} + \sqrt{48}}$ (5)

4. $\frac{\sqrt[3]{-8} - \sqrt[5]{32}}{\sqrt{72}}$ (5)

5. $\frac{10 - \sqrt{125}}{\sqrt{45}}$ (6)