



N5 - Expressions & Formulae

Worksheet 3

Silver Level



Outcome 1 - Simplifying Surds

Simplify the following expressions...

$$1 \quad \sqrt{176} + \sqrt{275} + \sqrt{11}$$

$$2 \quad \sqrt{3} + \sqrt{108} + \sqrt{300}$$

$$3 \quad \sqrt{360} - \sqrt{10} - \sqrt{160}$$

$$4 \quad \sqrt{200} - \sqrt{18} + \sqrt{2}$$

$$5 \quad \sqrt{5} + \sqrt{605} - \sqrt{180}$$

$$6 \quad \sqrt{600} - \sqrt{6} - \sqrt{216}$$

Outcome 2 - Rationalising the Denominator

Express each of the following with rational denominators and simplify where required...

$$1 \quad \frac{20}{\sqrt{2}}$$

$$2 \quad \frac{3}{\sqrt{6}}$$

$$3 \quad \frac{13}{\sqrt{13}}$$

$$4 \quad \frac{11}{\sqrt{11}}$$

$$5 \quad \frac{20}{\sqrt{5}}$$

$$6 \quad \frac{60}{\sqrt{10}}$$

$$7 \quad \frac{30}{\sqrt{6}}$$

$$8 \quad \frac{11}{\sqrt{22}}$$