## National 5 Mathematics

## Surds - Questions

Marks are indicated in brackets after each question number

2014 Paper 1 Question 8, (3)
Express $\sqrt{40}+4 \sqrt{10}+\sqrt{90}$ as a surd in its simplest form.

2015 Paper 1 Question 13, (3)
Express $\frac{4}{\sqrt{8}}$ with a rational denominator.
Give your answer in its simplest form.

2016 Paper 1 Question 9, (2)
The function $f(x)$ is defined by $f(x)=\frac{2}{\sqrt{x}}, x>0$.

Express $f(5)$ as a fraction with a rational denominator.

2018 Paper 1 Question 11, (2)
Express $\frac{9}{\sqrt{6}}$ with a rational denominator.
Give your answer in its simplest form.

2019 Paper 1 Question 12, (3)
Express $\frac{\sqrt{2}}{\sqrt{40}}$ as a fraction with a rational denominator.
Give your answer in its simplest form.

2022 Paper 1 Question 13, (3)
Expand and simplify $\sqrt{10}(\sqrt{10}-\sqrt{2})+8 \sqrt{5}$.

2023 Paper 1 Question 8, (2)
Express $\frac{12}{\sqrt{15}}$ with a rational denominator.
Give your answer in its simplest form.

