

# National 5 Maths Rationalising the Denominator

## SQA past paper and specimen paper questions and answers by topic

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#### National 5 Maths SQA 2013 Specimen Paper 1 Question 5



Express  $\frac{4}{\sqrt{6}}$  with a rational denominator in its simplest form.

2

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

#### National 5 Maths SQA 2015 Paper 1 Question 13



Express  $\frac{4}{\sqrt{8}}$  with a rational denominator.

Give your answer in its simplest form.

3

Answer:

 $\sqrt{2}$ 

#### National 5 Maths SQA 2016 Paper 1 Question 9



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.

2

$$\frac{2\sqrt{5}}{5}$$

#### National 5 Maths SQA 2018 Paper 1 Question 11



Express  $\frac{9}{\sqrt{6}}$  with a rational denominator.

Give your answer in its simplest form.

2

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

#### National 5 Maths SQA 2019 Paper 1 Question 12



Express  $\frac{\sqrt{2}}{\sqrt{40}}$  as a fraction with a rational denominator.

Give your answer in its simplest form.

3

Answer:

 $\frac{\sqrt{5}}{10}$ 

### National 5 Maths SQA 2023 Paper 1 Question 8



Express  $\frac{12}{\sqrt{15}}$  with a rational denominator.

Give your answer in its simplest form.

2

$$\frac{4\sqrt{15}}{5}$$