National 5 Mathematics

Indices - Questions

Marks are indicated in brackets after each question number

2014 Paper 2 Question 8, (3)

Simplify $\dfrac{n^5 \times 10n}{2n^2}$.

2015 Paper 1 Question 14, (2)

Evaluate $8^{\frac{5}{3}}$.

2016 Paper 2 Question 10, (3)

Simplify $\left(n^2\right)^3 \times n^{-10}$.

Give your answer with a **positive** power.

2017 Paper 2 Question 12, (2)

Express $\dfrac{1}{\sqrt[3]{x}}$ in the form x^n.

2018 Paper 1 Question 15, (2)

Remove the brackets and simplify $\left(\dfrac{2}{3}p^4\right)^2$.

2019 Paper 2 Question 16, (3)

Simplify $\dfrac{a^4 \times 3a}{\sqrt{a}}$.

2022 Paper 1 Question 11, (3)

Simplify $\left(m^{-2}\right)^4 \times m^{-5}$.

Give your answer with a **positive** power.

2023 Paper 1 Question 12, (3)

Simplify $\dfrac{5c^{-2}}{c^3 \times c^4}$.

Give your answer with a **positive** power.

2024 Paper 1 Question 13, (2)

Expand and simplify fully $x\left(x^{\frac{1}{2}} + x^{-1}\right)$.

2025 Paper 1 Question 10, (3)

Simplify $\dfrac{n^7 \times \left(n^3\right)^2}{n^4}$.