

QT Laws of Indices

A Level Introduction



1. Write in index form $2^8 \times 8^2$

(2 marks)

2. Write in index form $(4^4 \times 16)^3$

(2 marks)

3. Write in index form $\frac{25^2}{5^3} \times 5^{-2}$

(2 marks)

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4. Write in index form $8^0 \div \sqrt[3]{8}$

(2 marks)

5. Write in index form $(16^6 \div 4^5) \times 4^{-3}$

(3 marks)

6. Write in index form $(4 \times 64^2)^2 \div 4^5$

(3 marks)

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7. Write in index form $\sqrt[8]{6} \div \sqrt[3]{6}$

(3 marks)

8. Write in index form $\frac{1}{3^3} \times \frac{1}{\sqrt{3}}$

(3 marks)

9. Write the following as a whole number $36^{\frac{3}{2}}$

(2 marks)

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10. Write the following as a fraction $8^{-\frac{4}{3}}$

(2 marks)

11. Write the following as a mixed number $16^{\frac{3}{2}} \div 125^{\frac{2}{3}}$

(3 marks)

12. Write the following as a fraction $49^{\frac{1}{2}} \times 343^{-\frac{2}{3}}$

(4 marks)