



Aberdare Community School
Mathematics Department

WJEC GCSE
Higher – Non Calculator
Number

Indices

Name:

Set:

Date:

Teacher:

15.

(c) Evaluate $16^{-\frac{1}{2}}$.

[1]

13. (a) Simplify each of the following.

(i) $8^{\frac{2}{3}}$

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[2]

(ii) $25^{-\frac{1}{2}}$

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[2]

(b) Expand and simplify $(7 - \pi)(10 - \pi)$, leaving π in your answer.

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[3]

14.

(c) Simplify $1000^{-\frac{2}{3}}$.

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[2]

14. (a) Express $1000^{-\frac{2}{3}}$ as a decimal.

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[3]

9. (a) Evaluate each of the following.

(i) $2^5 - 11^2$

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..... [3]

(ii) 28^0

..... [1]

(iii) $81^{\frac{1}{4}} \times 25^{-\frac{1}{2}}$

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..... [3]



13. (a) Express $8^{-\frac{2}{3}}$ as a decimal.

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[2]

15. (a) Express $400^{-\frac{3}{2}}$ as a fraction.

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[2]

Examiner
only

11.

(b) Simplify $8000^{-\frac{2}{3}}$.

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[2]

10.

(b) Evaluate $2^{-3} \times 16^{\frac{1}{2}}$.

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[3]

15.

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(b) Express $100^{-\frac{1}{2}}$ as a fraction.

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[1]



8.

(c) Simplify $400^{-\frac{3}{2}}$.

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[2]



13.

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(b) Evaluate $16^{-\frac{1}{2}}$.

[2]

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14. (a) Evaluate $8^{-\frac{2}{3}}$.

[2]

Examiner
only

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16. (a) Express each of the following as a **decimal**.

(i) 2.1×10^{-2} [1]

(ii) $400^{-\frac{1}{2}}$ [2]



14.

(b) Evaluate $\left(\frac{27}{8}\right)^{-\frac{1}{3}}$.

[2]

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13. (a) Evaluate $4^0 + \left(\frac{1}{25}\right)^{-\frac{1}{2}}$.

[3]

Examiner
only

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