

# Indices

November 2021 Paper 3

17 (d) Simplify  $4e^2f \times 5ef^3$

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(2)

## June 2024 Paper 1

18 Write down the value of  $10^0$

.....  
**(Total for Question 18 is 1 mark)**

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## November 2023 Paper 1

19 (a) (i) Write down the value of  $5^0$

.....  
(1)

(ii) Write down the value of  $5^{-2}$

.....  
(1)

(b) Write  $\frac{2^5 \times 2^4}{2^3}$  in the form  $2^n$  where  $n$  is an integer.

.....  
(2)

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**(Total for Question 19 is 4 marks)**

June 2023 Paper 3

20 (a) Simplify  $(m^2)^3$

.....  
(1)

(b) Simplify  $x^5 \times x^8$

.....  
(1)

(c) Expand  $4p(p^2 + 3p)$

.....  
(2)

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**(Total for Question 20 is 4 marks)**

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November 2021 Paper 2

20 (a) Simplify  $c^5 \div c^2$

.....  
(1)

(b) Simplify  $(d^4)^3$

.....  
(1)

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**(Total for Question 20 is 2 marks)**

## November 2022 Paper 1

**21** Simplify  $(2^{-5} \times 2^8)^2$

Give your answer as a power of 2

.....  
**(Total for Question 21 is 2 marks)**

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21 (a) Simplify  $(x^3)^5$

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(1)

June 2020 Paper 3

23 (a) Simplify  $n^3 \times n^5$

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(1)

(b) Simplify  $\frac{c^3d^4}{c^2d}$

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(2)

November 2024 Paper 3

25 (a) Simplify fully  $2x^3y^5 \times 7x^2y$

.....  
(2)

(b) Simplify  $(m^2)^{-3}$

.....  
(1)

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**(Total for Question 25 is 3 marks)**

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June 2023 Paper 1

29 Work out the value of  $\frac{4^{-6} \times 4^9}{4}$

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**(Total for Question 29 is 2 marks)**

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June 2020 Paper 1

30 (b) Simplify  $(m^{-2})^{-3}$

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(1)