



REVIEW

POWERS AND ROOTS

FRACTIONAL POWERS

NO CALCULATOR

Ref: G133. **2R1**

A1 State the value of 5^0	A2 State the value of 7^1	A3 Evaluate 4^{-3} Give your answer as a fraction in its simplest terms.	A4 Evaluate $\sqrt[3]{125}$
B1 Evaluate $49^{\frac{1}{2}}$	B2 Evaluate $27^{\frac{1}{3}}$	B3 Evaluate $64^{\frac{2}{3}}$	B4 Evaluate $16^{\frac{3}{4}}$
C1 Evaluate $8^{-\frac{1}{3}}$ Give your answer as a fraction in its simplest terms.	C2 Evaluate $36^{-\frac{1}{2}}$ Give your answer as a fraction in its simplest terms.	C3 Evaluate $81^{-\frac{3}{4}}$ Give your answer as a fraction in its simplest terms.	C4 Evaluate $216^{-\frac{2}{3}}$ Give your answer as a fraction in its simplest terms.
D1 Evaluate $\left(\frac{9}{16}\right)^{\frac{1}{2}}$ Give your answer as a fraction in its simplest terms.	D2 Evaluate $\left(\frac{27}{343}\right)^{\frac{2}{3}}$ Give your answer as a fraction in its simplest terms.	D3 Evaluate $\left(\frac{125}{8}\right)^{-\frac{1}{3}}$ Give your answer as a fraction in its simplest terms.	D4 Evaluate $\left(\frac{49}{36}\right)^{-\frac{3}{2}}$ Give your answer as a fraction in its simplest terms.



REVIEW

POWERS AND ROOTS

FRACTIONAL POWERS

NO CALCULATOR

Ref: G133. **2R1**

A1 State the value of 5^0 <div>1</div>	A2 State the value of 7^1 <div>7</div>	A3 Evaluate 4^{-3} Give your answer as a fraction in its simplest terms. <div>$\frac{1}{64}$</div>	A4 Evaluate $\sqrt[3]{125}$ <div>5</div>
B1 Evaluate $49^{\frac{1}{2}}$ <div>7</div>	B2 Evaluate $27^{\frac{1}{3}}$ <div>3</div>	B3 Evaluate $64^{\frac{2}{3}}$ <div>16</div>	B4 Evaluate $16^{\frac{3}{4}}$ <div>8</div>
C1 Evaluate $8^{-\frac{1}{3}}$ <div>$\frac{1}{2}$</div> Give your answer as a fraction in its simplest terms.	C2 Evaluate $36^{-\frac{1}{2}}$ <div>$\frac{1}{6}$</div> Give your answer as a fraction in its simplest terms.	C3 Evaluate $81^{-\frac{3}{4}}$ <div>$\frac{1}{27}$</div> Give your answer as a fraction in its simplest terms.	C4 Evaluate $216^{-\frac{2}{3}}$ <div>$\frac{1}{36}$</div> Give your answer as a fraction in its simplest terms.
D1 Evaluate $\left(\frac{9}{16}\right)^{\frac{1}{2}}$ <div>$\frac{3}{4}$</div> Give your answer as a fraction in its simplest terms.	D2 Evaluate $\left(\frac{27}{343}\right)^{\frac{2}{3}}$ <div>$\frac{9}{49}$</div> Give your answer as a fraction in its simplest terms.	D3 Evaluate $\left(\frac{125}{8}\right)^{-\frac{1}{3}}$ <div>$\frac{2}{5}$</div> Give your answer as a fraction in its simplest terms.	D4 Evaluate $\left(\frac{49}{36}\right)^{-\frac{3}{2}}$ <div>$\frac{216}{343}$</div> Give your answer as a fraction in its simplest terms.