

**Rules of Indices** Name \_\_\_\_\_

Write your answers on the sheet

Section 1 $p^2 \times p^3 =$ $2p^4 \times 4p^3 =$ $p^2 \times p =$ $p^4 \times p^{-5} =$ $t^5 \div t^3 =$ $10t^3 \div 5t^2 =$ $t \div t^{-3} =$ $\frac{8t^6}{2t^3} =$	Section 5 $\frac{1}{25^2} =$ $36^{\frac{1}{2}} =$ $27^{\frac{1}{3}} =$ $8^{\frac{1}{3}} =$ $16^{\frac{1}{4}} =$ $81^{\frac{1}{4}} =$
Section 2 $(2^2)^3 =$ $(p^3)^5 =$ $(t^2)^{-2} =$ $(5k^2)^2 =$ $(p^2q^3)^3 =$ $(2p^3q^{-2})^5 =$	Section 6 $4^{\frac{3}{2}} =$ $25^{\frac{3}{2}} =$ $27^{\frac{2}{3}} =$ $8^{\frac{4}{3}} =$ $64^{\frac{2}{3}} =$
Section 3 $6^{-1} =$ $p^{-1} =$ $t^{-3} =$ $2p^{-2} =$ $(3k)^{-2} =$	Section 7 $\left(\frac{25}{36}\right)^{\frac{1}{2}} =$ $\left(\frac{8}{216}\right)^{\frac{1}{3}} =$ $\left(\frac{27}{125}\right)^{\frac{2}{3}} =$
Section 4 $5^0 =$ $a^0 =$ $(2p^2)^0 =$	Section 8 $25^{\frac{1}{2}} =$ $(6^2)^{-0.5} =$ $\left(\frac{8}{27}\right)^{-\frac{2}{3}} =$

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