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Name:		Class:
Ex	sponents with fractional ba	ses
	valuate the following expression	ons
$\left(\begin{array}{c} 5 \\ 6 \end{array}\right)^3 = \frac{(5)^3}{(6)^3}$	$\left(\begin{array}{c} 3 \\ 4 \end{array}\right)^4 =$	$\left(\frac{52}{97}\right)^{0} =$
$= \frac{5 \times 5 \times 5}{6 \times 6 \times 6}$		
= 125		
216		
$\left(\begin{array}{c}5\\3\end{array}\right)^5=$	$\left(\begin{array}{c} 1 \\ 2 \end{array}\right)^7 =$	$\left(\begin{array}{c} 3 \\ 8 \end{array}\right)^2 =$
$\left(\begin{array}{c} 10 \\ 4 \end{array}\right)^1 =$	$\left(\begin{array}{c} 7 \\ 9 \end{array}\right)^2 =$	$\left(\begin{array}{c}4\\7\end{array}\right)^2=$
=		
In eac	h case, solve and tick most	the correct answer.
25 4	729 4,096	27 125
$\left(\frac{10}{4}\right)^2 = ?$ $\frac{100}{16}$	(3 d) = ? 729 4,069	$ \left(\begin{array}{c} 3 \\ 5 \end{array}\right)^3 = ? $ $ \frac{27}{150} $

128 2,187

129 2,187



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Exponents with fractional bases Evaluate the following expressions $(5)^3$ $(3)^4$ $(52)^{\circ}$ $(6)^3$ $(4)^4$ $(97)^{\circ}$ $3 \times 3 \times 3 \times 3$ $5 \times 5 \times 5$ 6 x 6 x 6 4 x 4 x 4 x 4 125 81 216 256 $(5)^5$ $(1)^7$ $(3)^2$ $(3)^{5}$ $(2)^{7}$ $(8)^2$ 5 x 5 x 5 x 5 x 5 3×3 1 x 1 x 1 x 1 x 1 x 1 x 1 3 × 3 × 3 × 3 × 3 2 x 2 x 2 x 2 x 2 x 2 x 2 8 x 8 3,125 9 243 128 64 $(4)^2$ $(10)^{1}$ $(7)^2$ $(4)^{1}$ $(9)^2$ $(7)^2$ 10 5 7 x 7 4×4 4 7 × 7 2 9 x 9 5 49 16 2 81 49 In each case, solve and tick the most correct answer. 4,096 125 100 729 27 4.069 16 150 2,187

129 2.187