

Answers - Rules of indices

1	a	1	b	1	c	1	d	1
2	a	7	b	4	c	5	d	2
3	a	125	b	32	c	343	d	8
4	a	$\frac{1}{25}$	b	$\frac{1}{64}$	c	$\frac{1}{32}$	d	$\frac{1}{36}$
5	a	$\frac{3x^3}{2}$	b	$5x^2$				
	c	$3x$	d	$\frac{y}{2x^2}$				
	e	$y^{\frac{1}{2}}$	f	c^{-3}				
	g	$2x^6$	h	x				
6	a	$\frac{1}{2}$	b	$\frac{1}{9}$	c	$\frac{8}{3}$		
	d	$\frac{1}{4}$	e	$\frac{4}{3}$	f	$\frac{16}{9}$		
7	a	x^{-1}	b	x^{-7}	c	$x^{\frac{1}{4}}$		
	d	$x^{\frac{2}{5}}$	e	$x^{-\frac{1}{3}}$	f	$x^{-\frac{2}{3}}$		
8	a	$\frac{1}{x^3}$	b	1	c	$\sqrt[5]{x}$		
	d	$\sqrt[5]{x^2}$	e	$\frac{1}{\sqrt{x}}$	f	$\frac{1}{\sqrt[4]{x^3}}$		
9	a	$5x^{\frac{1}{2}}$	b	$2x^{-3}$	c	$\frac{1}{3}x^{-4}$		
	d	$2x^{-\frac{1}{2}}$	e	$4x^{-\frac{1}{3}}$	f	$3x^0$		
10	a	$x^3 + x^{-2}$	b	$x^3 + x$	c	$x^{-2} + x^{-7}$		