

Name..... Date.....

Surds: Multiplication Squares

Can you fill in the missing numbers in these multiplication squares?

x	$\sqrt{10}$	$\sqrt{6}$
$\sqrt{8}$	$\sqrt{\quad}$	$2\sqrt{\quad}$
$\sqrt{6}$	$2\sqrt{\quad}$	

x	$\sqrt{6}$	$\sqrt{3}$
$\sqrt{12}$	$___\sqrt{8}$	
$\sqrt{7}$	$\sqrt{3} \times \sqrt{\quad}$	$\sqrt{\quad}$

x	$3\sqrt{6}$	$2\sqrt{8}$
$\sqrt{6}$		$___\sqrt{48}$
$\sqrt{3}$	$___\sqrt{2}$	$4\sqrt{\quad}$

x	$\sqrt{9}$	$2\sqrt{3}$
$2\sqrt{3}$	$___\sqrt{\quad}$	
$3\sqrt{3}$	$___\sqrt{\quad}$	

x	$\sqrt{\quad}$	$\sqrt{\quad}$
$\sqrt{6}$	$\sqrt{48}$	$\sqrt{30}$
	$\sqrt{72}$	$\sqrt{45}$

x		$2\sqrt{5}$
	$\sqrt{60}$	10
	$4\sqrt{6}$	$4\sqrt{\quad}$

Challenge: Make up one of your own!

Answers

x	$\sqrt{10}$	$\sqrt{6}$
$\sqrt{8}$	$\sqrt{80}$	$2\sqrt{12}$
$\sqrt{6}$	$2\sqrt{15}$	6

x	$\sqrt{6}$	$\sqrt{3}$
$\sqrt{12}$	$3\sqrt{8}$	6
$\sqrt{7}$	$\sqrt{3} \times \sqrt{8}$	$\sqrt{21}$

x	$3\sqrt{6}$	$2\sqrt{8}$
$\sqrt{6}$	18	$2\sqrt{48}$
$\sqrt{3}$	$9\sqrt{2}$	$4\sqrt{6}$

x	$\sqrt{9}$	$2\sqrt{3}$
$2\sqrt{3}$	$6\sqrt{3}$	12
$3\sqrt{3}$	$9\sqrt{3}$	18

x	$\sqrt{8}$	$\sqrt{5}$
$\sqrt{6}$	$\sqrt{48}$	$\sqrt{30}$
3	$\sqrt{72}$	$\sqrt{45}$

x	$\sqrt{12}$	$2\sqrt{5}$
$\sqrt{5}$	$\sqrt{60}$	10
$\sqrt{8}$	$4\sqrt{6}$	$4\sqrt{10}$

Challenge: Make up one of your own!