

## Working with Surds

Arrange the cards below to explore how the four operations are used with surds. Use your calculator to produce an answer to the problem you have created and then try to work out what it is your calculator is doing.

(	)	+	-	×	÷
(	)	+	-	×	÷
$\sqrt{2}$	$\sqrt{2}$	$\sqrt{5}$	$\sqrt{8}$		
$\sqrt{20}$	$\sqrt{75}$	$\sqrt{3}$	$\sqrt{3}$		
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		
<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>		

Test your ideas by creating similar problems. Try and create a 'rule' which means you can work out any problem of that type quickly.