



# Decode the Maths Joke



## Multiplying and Dividing Surds

Calculate a value for each of the letters of the alphabet.

<b>A</b>	$\sqrt{7} \times \sqrt{5}$	$\sqrt{35}$
<b>B</b>	$\sqrt{2} \times \sqrt{3}$	$\sqrt{6}$
<b>C</b>	$\sqrt{15} \div \sqrt{5}$	$\sqrt{3}$
<b>D</b>	$\sqrt{6} \div \sqrt{3}$	$\sqrt{2}$
<b>E</b>	$\sqrt{14} \div \sqrt{2}$	$\sqrt{7}$
<b>F</b>	$\sqrt{2} \times \sqrt{8}$	4
<b>G</b>	$\sqrt{65} \div \sqrt{5}$	$\sqrt{13}$
<b>H</b>	$\sqrt{5} \times \sqrt{11}$	$\sqrt{55}$
<b>I</b>	$\sqrt{2} \times \sqrt{6} \times \sqrt{3}$	6
<b>J</b>	$\sqrt{10} \div \sqrt{10}$	1
<b>K</b>	$\sqrt{5} \times \sqrt{5}$	5
<b>L</b>	$\sqrt{66} \div \sqrt{6}$	$\sqrt{11}$
<b>M</b>	$\sqrt{21} \times \sqrt{3} \div \sqrt{7}$	3

<b>N</b>	$\sqrt{5} \times \sqrt{2} \times \sqrt{3}$	$\sqrt{30}$
<b>O</b>	$\sqrt{10} \div \sqrt{2}$	$\sqrt{5}$
<b>P</b>	$(\sqrt{9})^2$	9
<b>Q</b>	$\sqrt{6} \times \sqrt{2} \div \sqrt{3}$	2
<b>R</b>	$\sqrt{2} \times \sqrt{7}$	$\sqrt{14}$
<b>S</b>	$(\sqrt{4})^2 \times (\sqrt{5})^2$	20
<b>T</b>	$\sqrt{6} \times \sqrt{11} \div \sqrt{2}$	$\sqrt{33}$
<b>U</b>	$\sqrt{2} \times \sqrt{5} \times \sqrt{10}$	10
<b>V</b>	$\sqrt{5} \times \sqrt{6} \div \sqrt{3}$	$\sqrt{10}$
<b>W</b>	$\sqrt{3} \times \sqrt{7}$	$\sqrt{21}$
<b>X</b>	$(\sqrt{4})^3$	8
<b>Y</b>	$\sqrt{2} \times \sqrt{6} \times \sqrt{7}$	$\sqrt{42}$
<b>Z</b>	$(\sqrt{3})^2 \times \sqrt{5} \div \sqrt{3}$	$\sqrt{15}$

Now decode the joke....

$\sqrt{21}$	$\sqrt{55}$	$\sqrt{42}$		$\sqrt{35}$	$\sqrt{14}$	$\sqrt{7}$		20	2	10	$\sqrt{35}$	$\sqrt{14}$	$\sqrt{7}$	
W	H	Y		A	R	E		S	Q	U	A	R	E	

$\sqrt{14}$	$\sqrt{5}$	$\sqrt{5}$	$\sqrt{33}$	20		$\sqrt{30}$	$\sqrt{7}$	$\sqrt{10}$	$\sqrt{7}$	$\sqrt{14}$		20	$\sqrt{35}$	$\sqrt{2}$	?
R	O	O	T	S		N	E	V	E	R		S	A	D	?

$\sqrt{6}$	$\sqrt{7}$	$\sqrt{3}$	$\sqrt{35}$	10	20	$\sqrt{7}$		$\sqrt{33}$	$\sqrt{55}$	$\sqrt{7}$	$\sqrt{42}$	,	$\sqrt{14}$	$\sqrt{7}$
B	E	C	A	U	S	E		T	H	E	Y	,	R	E

$\sqrt{35}$	$\sqrt{11}$	$\sqrt{21}$	$\sqrt{35}$	$\sqrt{42}$	20		9	$\sqrt{5}$	20	6	$\sqrt{33}$	6	$\sqrt{10}$	$\sqrt{7}$	!
A	L	W	A	Y	S		P	O	S	I	T	I	V	E	!