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# Surds And Other Roots

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Surds And Other Roots

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Surds (1 of 2:  
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**Details**Surds  
 And Other  
 RootsWhen  
 we have  
 square roots  
 which give  
 irrational

numbers we  
 call them  
 surds. So  $\sqrt{2}$   
 and  $\sqrt{3}$  are  
 surds. Other  
 surds are  $\sqrt{5}$ ,  
 $\sqrt{6}$ ,  $\sqrt{7}$ ,  $\sqrt{8}$ ,  $\sqrt{10}$   
 and so on.  
 Surds are  
 often found  
 when using  
 Pythagoras'  
 Theorem, and  
 in  
 trigonometry.  
 So, where  
 possible, it is  
 useful to be  
 able to  
 simplify  
 expressions  
 involving  
 surds. Take,  
 for example,  $\sqrt{8}$ .  
 This can be  
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Example:  $\sqrt{2}$  (square root of 2) can't be simplified further so it is a surd. Example:  $\sqrt{4}$  (square root of 4) can be simplified (to 2), so it is not a surd! Have a look at some more examples: Number. Simplified. Surds - MATHS Surds are numbers left in square root form that are used when detailed accuracy is required in a calculation. They are numbers which, when written in decimal form,

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two surds are of the same order, then the one whose radicand is larger, is the larger of the two. (ii) If two surds are distinct order, we change them into the surds of the same order. This order is L.C. M. of the orders of the given surds. CTET Maths complete Study Notes Type - IV . Type - VPowers, Indices and Surds Notes For CTET Exam: Free PDFIn mathematics, an  $n$ th root of a number  $x$  is

a number  $r$  which, when raised to the power  $n$ , yields  $x = r^n$ , where  $n$  is a positive integer, sometimes called the degree of the root. A root of degree 2 is called a square root and a root of degree 3, a cube root. Roots of higher degree are referred by using ordinal numbers, as in fourth root, twentieth root, etc.. The computation of an  $n$ th root is a ...nth root - WikipediaAdd

a URL for another version of the exact same video. Useful when many versions of the same video exist, or when there are different formats (like HTML5) [www.mathcentre.ac.uk/.../Surds.mp4](http://www.mathcentre.ac.uk/.../Surds.mp4) | AmaraUseful sheet to get students estimating the roots of integers other than perfect squares, through students knowledge of square numbers. Ask students to work in pairs or small



groups. Also works well as a lead in to surds at ks4

*\*Update\** the post it idea below works fantastically well, students can then rank the answers in terms of their ...

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Surds are irrational numbers that cannot be simplified further to remove 'n' root. When we try to remove the root of any number and it keeps on repeating number and the value goes on and on, these

numbers are called Surds

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Surds are numbers left in 'square root form' (or 'cube root form' etc). They are therefore irrational numbers. The reason we leave them as surds is because in decimal form they would go on forever and so this is a very clumsy way of writing them. The video below explains that surds are the roots of numbers that are not whole numbers.

In many surd simplification problems such as square root surds appear. Unless you free up the surd expression from the surrounding square root there is no way you can proceed further. The obvious way to do this is, To express the two term surd expression under square root as a square of another two-term surd expression.

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In mathematics, an  $n$ th root of a number  $x$  is a number  $r$  which, when raised to the power  $n$ , yields  $x$ :  $x = r^n$ , where  $n$  is a positive integer, sometimes called the degree of the root. A root of degree 2 is called a square root and a root of degree 3, a cube root. Roots of higher degree are referred to by using ordinal numbers, as in fourth root, twentieth root, etc.. The computation

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Numbers that are irrational and cannot be represented in the form of fractions or as recurring decimal numbers are known as surds. These numbers cannot be represented as recurring decimals or as fractions, they can be only represented as square roots.

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When we have square roots which give irrational numbers we call them surds. So  $\sqrt{2}$  and  $\sqrt{3}$  are surds. Other surds are  $\sqrt{5}$ ,  $\sqrt{6}$ ,  $\sqrt{7}$ ,  $\sqrt{8}$ ,  $\sqrt{10}$  and so on. Surds are often found when using Pythagoras' Theorem, and in trigonometry. So, where possible, it is useful to be able to simplify expressions involving surds. Take, for example,  $\sqrt{8}$ . This can be

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etc) then it is  
a surd.  
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(square root of  
2) can't be  
simplified  
further so it is  
a surd.  
Example:  $\sqrt{4}$   
(square root of  
4) can be  
simplified (to  
2), so it is not  
a surd! Have a  
look at some  
more  
examples:  
Number.  
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Definition.  
Surd are the  
square roots  
( $\sqrt{\quad}$ ) of numbers  
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number. It cannot be accurately represented in a fraction. In other words, a surd is a root of the whole number that has an irrational value.

Consider an example,  $\sqrt{2} \approx 1.414213$ . It is more accurate if we leave it as a surd  $\sqrt{2}$ .

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Surds are numbers left in 'square root form' (or 'cube root form' etc). They are therefore irrational numbers. The reason we leave them as surds is because in decimal form they would go on forever and so this is a very clumsy way of writing them. The video below

explains that surds are the roots of numbers that are not whole numbers.

Surds and other roots and powers are closely related, but only some roots can be written as whole numbers. Surds are roots which cannot be written in this way.

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