

## Surds and Indices

Created by:

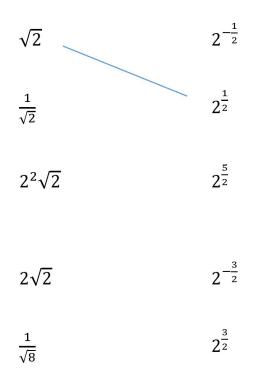
www.pinpointlearning.co.uk

The Personalised GCSE Revision Site



## 1) Surds and Indices: Easier

1) Match each surd to it's index form equivalent. One has been done for you.



(4 marks)

2) Write  $\sqrt{3}$  in the form  $3^n$ 

.....

(1 marks)

3) Write  $\frac{1}{\sqrt{5}}$  in the form  $5^n$ 

.....

(1 marks)



## 1) Surds and Indices: Medium

4) Show that  $3^{\frac{3}{2}}$  can be written in the form  $a\sqrt{3}$ 

.....

(2 marks)

5) Show that  $8^{\frac{1}{2}}$  can be written in the form  $a\sqrt{2}$ 

.....

(2 marks)

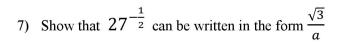
6) Write  $\frac{7}{\sqrt{7}}$  in the form  $7^n$ 

(2 marks)

.....



## 1) Surds and Indices: Harder



.....

(3 marks)

8) Show that  $20^{-\frac{3}{2}}$  can be written in the form  $\frac{\sqrt{5}}{a}$ 

.....

(4 marks)

9) Write  $24\sqrt{3}$  in the form  $12^n$ 

.....