**Calculator Free**

**Index Laws and Surds**

Time: 45 minutes

Total Marks: 45

Your Score: / 45

Worksheet 1

**Question One: [1, 1, 2, 2, 2, 2, 2 = 12 marks]**

Evaluate each of the following:

1. 
2. 
3. 
4. 
5. 
6. 
7. 

**Question Two: [3, 3, 3, 5, 5 =16 marks]**

Simplify each of the following expressions, giving all answers with positive indices.

1.  (b) 
2.  (d) 
3. 

**Question Three: [ 1, 2, 3, 2, 3, 3, 3 = 17 marks ]**

Simplify each of the following expressions:

1. 
2. 
3. 
4. 
5. 
6. 
7. 

**SOLUTIONS**

**Calculator Free**

**Index Laws and Surds**

Time: 45 minutes

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**Question One: [1, 1, 2, 2, 2, 2, 2 = 12 marks]**

Evaluate each of the following:



1. 
2. 



1. 



1. 



1. 



1. 



1. 

**Question Two: [3, 3, 3, 5, 5 =16 marks]**

Simplify each of the following expressions, giving all answers with positive indices.

1.  (b) 

 

1.  (d) 

 

1. 



**Question Three: [ 1, 2, 3, 2, 3, 3, 3 = 17 marks ]**

Simplify each of the following expressions:

1. 



1. 



1. 



1. 



1. 



1. 



1. 