Introduction to Logarithms: Questions

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A selection of questions for the study guide on logarithms.

*Before attempting these questions, it is highly recommended that you read* [*Guide: Introduction to Logarithms*](Logarithms_Study_Guide.qmd)*.*

## Q1

For the following, find the value of if is a rational number:

1.1.

1.2.

1.3.

1.4.

1.5.

1.6.

1.7.

1.8.

1.9.

1.10.

1.11.

1.12.

## Q2

Before attempting this question, write out the 5 laws next to their names:  
1. The Product Rule:  
2. The Quotient Rule:  
3. The Power Rule:  
4. The Zero Rule:  
5. The Identity Rule:

For the following, using the 5 Laws, find the value of :  
2.1.

2.2.

2.3.

2.4.

2.5.

2.6.

## Q3

Convert the following logarithms to the given base and evaluate

3.1. to base

3.2. to base

3.3. to base

3.4. to base

3.5. to base

## Q4

For the following, find the value of :

4.1.

4.2.

4.3.

4.4.

4.5.

4.6.