LEMBAR KERJA PESERTA DIDIK

Anggota Kelompok :

1.
2.

KELOMPOK

3.
4.

DEFINISI LOGARITMA

Jika $a^n = x \leftrightarrow a_{Log\ x} = n$

Contoh : $3^2 = 9 \leftrightarrow 3_{Log\ 9} = 2$

Soal 1 :

$4^{\cdots} = 64 \leftrightarrow 4_{Log\ 64} = \cdots$

SIFAT-SIFAT LOGARITMA

1. $a_{Log\ a} = 1$

Contoh : $3_{Log\ 3} = 1$

Soal 2 :

$5_{Log\ 5} = \cdots$

2. $a_{Log\ 1} = 0$

Contoh : $2_{Log\ 1} = 0$

Soal 3 :

$6_{Log\ 1} = \cdots$

3. $a_{Log\ a^n} = n$

Contoh : $3_{Log\ 3^5} = 5$

Soal 4 :

$7_{Log\ 7^4} = \cdots$

4. $a_{Log\ (bxc)} = a_{Log\ b} + a_{Log\ c}$

Contoh : $2_{Log\ 8} + 2_{Log\ 4} = 2_{Log\ (8x4)} = 2_{Log\ 32} = 5$

Soal 5 :

$3_{Log\ 27} + 3_{Log\ 3} = 3_{Log\ (27x3)}$

$= 3_{Log\ \dots} = \cdots$

5. $a_{Log\ \frac{b}{c}} = a_{Log\ b} - a_{Log\ c}$

Contoh : $2_{Log\ 8} - 2_{Log\ 4} = 2_{Log\ \frac{8}{2}} = 2_{Log\ 2} = 1$

Soal 6 :

$3_{Log\ 27} - 3_{Log\ 3} = 3_{Log\ \frac{27}{3}}$

$= 3_{Log\ \dots} = \cdots$

6. $a_{Log\ b^n} = n\ a_{Log\ b}$

Contoh : $3_{Log\ 9^2} = 2.\ 3_{Log\ 9} = 2.2 = 4$

Soal 7 :

$6_{Log\ 216^2} = 2.\ 6_{Log\ 216} = \cdots x \dots = \cdots$

7. $a_{Log\ b} = \frac{n_{Log\ b}}{n_{Log\ a}}$

Contoh : $4_{Log\ 64} = \frac{2_{Log\ 64}}{2_{Log\ 4}} = \frac{6}{2} = 3$

Soal 8 :

$9_{Log\ 81} = \frac{3_{Log\dots}}{3_{Log\dots}} = \frac{\cdots}{\cdots} = \cdots$

8. $a_{Log\ b} = \frac{1}{b_{Log\ a}}$

Contoh : $8_{Log\ 64} = \frac{1}{64\ _{Log\ 8}} = \frac{1}{\frac{1}{2}} = 2$

Soal 9 :

$9_{Log\ 81} = \frac{1}{81\ _{Log\ 9}} = \frac{1}{\frac{\cdots}{\cdots}} = \cdots$

9. $a_{Log\ b}\ x\ b_{Log\ c} = a_{Log\ c}$

Contoh : $2_{Log\ 8}\ x\ 8_{Log\ 64} = 2_{Log\ 64} = 6$

Soal 10 :

$3_{Log\ 9}\ x\ 9_{Log\ 81} = \cdots Log \dots = \cdots$