LEMBAR KERJA PESERTA DIDIK

LKPD

MATEMATIKA

LOGARITMA

SEKOLAH	: SMKN 1 KARAWANG
MATA PELAJARAN	: MATEMATIKA
KELAS/SEMESTER	: X/GANJIL
MATERI POKOK	: LOGARITMA
ALOKASI WAKTU	: 45 MENIT

HARI/TANGGAL :

NAMA :

KELAS :

LIVEWORKSHEETS

KEGIATAN 2

1. Susunlah bentuk logaritma dengan bentuk eksponen agar berpasangan dengan tepat!

a. ${}^{3}\log 27$ = ☐

b. ${}^{2}\log 4$ = ☐

c. ${}^{2}\log 1$ = ☐

2	3	4
0	1	2

2. Perhatikan pernyataan dibawah ini! Berikan tanda centang ( ) pada jawaban yang benar!

☐ Nilai $\log 100 = 2$

☐ $\left(\frac{1}{2}\right)^3 = \frac{1}{8} \rightarrow {}^{\frac{1}{2}}\log \frac{1}{8} = 3$

☐ ${}^{2}\log 2 = 1$

KEGIATAN 3

1. ${}^{2}\log 32 = {}^{2}\log 2^{5} = \ldots\ldots$
2. ${}^{3}\log 81 = {}^{3}\log 3^{\ldots\ldots} = \ldots\ldots$
3. ${}^{2}\log 64 = {}^{2}\log 2^{\ldots\ldots} = \ldots\ldots$

LIVEWORKSHEETS

KEGIATAN 4

1. ${}^{3}\log 27 + {}^{3}\log 6 - {}^{3}\log 2 = {}^{3}\log \left(\frac{27.6}{2}\right) = {}^{3}\log \ldots\ldots = {}^{3}\log 3^{\ldots\ldots} = \ldots\ldots$

2. ${}^{3}\log \frac{1}{64} = {}^{2}\log (\ldots\ldots\ldots)^{-1} = {}^{2}\log (2^{\ldots\ldots})^{-1} = {}^{2}\log 2^{\ldots\ldots} = \ldots\ldots\ldots$

3. ${}^{\sqrt{5}}\log 625 = {}^{5^{-1}}\log 5^{\ldots\ldots\ldots} = \frac{\ldots\ldots\ldots\ldots}{-1} \cdot {}^{5}\log 5 = \ldots\ldots\ldots\ldots$

KEGIATAN 5

1. $5^{{}^{5}\log 4} = \ldots\ldots\ldots\ldots$

2. ${}^{3}\log 16 \cdot {}^{4}\log 3 = {}^{3}\log 4^{2} \cdot {}^{4}\log 3$

   $= 2 \cdot {}^{3}\log \ldots\ldots\ldots \cdot {}^{4}\log \ldots\ldots\ldots$

   $= \ldots\ldots\ldots\ldots \cdot {}^{3}\log 3$

   $= \ldots\ldots\ldots\ldots$

3. ${}^{5}\log 27 \cdot {}^{2}\log 125 \cdot {}^{3}\log 4 = {}^{5}\log 3^{\ldots\ldots} \cdot {}^{2}\log 5^{\ldots\ldots} \cdot {}^{3}\log 2^{\ldots\ldots}$

   $= 3\,{}^{5}\log \ldots\ldots\ldots \cdot 3 \cdot {}^{2}\log \ldots\ldots\ldots \cdot 2 \cdot {}^{3}\log \ldots\ldots\ldots$

   $= 3.3.2\,{}^{5}\log \ldots\ldots\ldots\,{}^{3}\log \ldots\ldots\ldots\,{}^{2}\log \ldots\ldots\ldots$

   $= \ldots\ldots\ldots\ldots \cdot {}^{5}\log 5$

   $= \ldots\ldots\ldots\ldots \cdot 1$

   $= \ldots\ldots\ldots\ldots$

LIVEWORKSHEETS