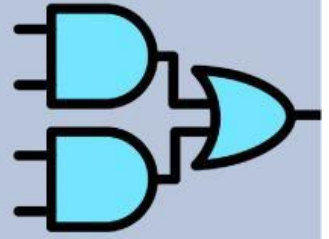


# LKPD

## INFORMATIKA



### EKSPRESI DAN OPERASI LOGIKA



#### Tujuan Pembelajaran:

1. Memahami dasar-dasar logika.
2. Menerapkan logika dalam pemecahan masalah.

## Aktivitas 1: Belajar Logika Proporsional

Agar kalian memahami materi ini, bisa tonton video di bawah ini:  
<https://www.youtube.com/watch?v=6nTXxS8kMiY>



Perhatikan contoh operasi logika di bawah ini:

AND    1 AND 1 = 1

AND    1 AND 0 = 0

OR     1 OR 1 = 1

OR     1 OR 0 = 1

NOT    NOT 0 = 1

NOT    NOT 1 = 0

Logika Kompleks :

(0 AND 1) OR (NOT 0) = 1 OR 1 = 1

Latihan!

0 AND 1 = .....

0 OR 1 = .....

(NOT 0) AND 1 = .....

0 AND 0 = .....

1 OR 1 = .....

0 OR (NOT 1) = .....

(0 OR 0) AND (NOT 1) = .....

NOT (1 AND 1 OR 0) = .....

## Aktivitas 2: Membuat Tabel Kebenaran

1. Perhatikan tabel kebenaran untuk ekspresi logika berikut :

| A | B | A AND B | A OR B | NOT A |
|---|---|---------|--------|-------|
| 0 | 0 | 0       | 0      | 1     |
| 0 | 1 | 0       | 1      | 1     |
| 1 | 0 | 0       | 1      | 0     |
| 1 | 1 | 1       | 1      | 0     |

2. Lengkapilah tabel berikut:

| A | B | C | NOT A | B AND C | A AND B | (NOT A) OR (B AND C) | (A OR B) AND (NOT A) |
|---|---|---|-------|---------|---------|----------------------|----------------------|
| 0 | 0 | 0 |       |         |         |                      |                      |
| 0 | 0 | 1 |       |         |         |                      |                      |
| 0 | 1 | 0 |       |         |         |                      |                      |
| 0 | 1 | 1 |       |         |         |                      |                      |
| 1 | 0 | 0 |       |         |         |                      |                      |
| 1 | 0 | 1 |       |         |         |                      |                      |
| 1 | 1 | 0 |       |         |         |                      |                      |
| 1 | 1 | 1 |       |         |         |                      |                      |

*Selamat  
mengerjakan*