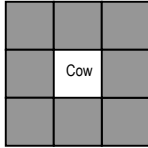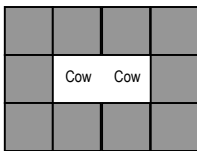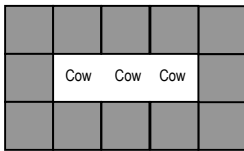# 12.1 Notes on Geometric Representations (F.BF.1)

## Patterns 1: Fences

1 cow, 8 cubes to build a fence.

2 cow, 10 cubes to build a fence.

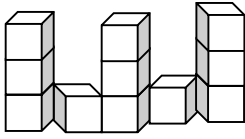3 cow, 12 cubes to build a fence.

1) How many cubes to build a fence for 10 cows?
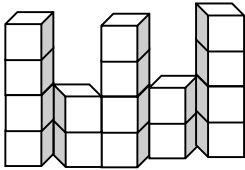
2) How many cubes to build a fence for 100 cows?

3) Rule: _____

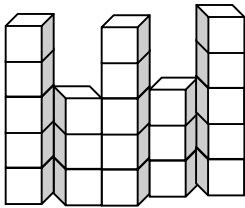| Cows | Cubes in Fence |
|---|---|
| 1 | 8 |
| 2 | 10 |
| 3 | 12 |
| . | |
| . | |
| . | |
| 10 | |
| 100 | |
| $n$ | |

# Patterns 2: Shopping Plaza

The shopping plaza with towers 3 stories tall takes 11 cubes to build.

The shopping plaza with towers 4 stories tall takes 16 cubes to build.

The shopping plaza with towers 5 stories tall takes 21 cubes to build.

How many cubes to build the shopping plaza tower 10 stories tall?

How many cubes to build the shopping plaza tower 100 stories tall?

| Towers | Cubes |
|--------|-------|
| 3 | 11 |
| 4 | 16 |
| 5 | 21 |
| . | |
| . | |
| . | |
| 10 | |
| 100 | |
| $n$ | |