## Soal

*Case*

1. If you have two devices that is a **Switch** and **Hub**, what **type of cable** will you use to connect the devices? Give the **order of colors** used from **left to right** for the **two ends of the cables**! **Please don’t use image to answer**!
2. Chandcorps is a new education corporate that recently just moved into their new building. They want to create **4 networks** under their main network which has **network address 192.168.101.0/24**. The details are written below:
   * **Administrator – 50 computers**
   * **Human Resource – 40 computers**
   * **Manager – 10 computers**
   * **Developer – 30 computers**

This agency wants you to handle the works. These are the details of the works:

1. Create a **new subnet mask and IP address range for every network** using **FLSM**. (**Network address, Broadcast address, Usable IP address, Subnet mask / CIDR**)
2. **Open the “Case 02.pka”** file and follow the instructions shown in the case to **create** **a LAN connection**. **Make sure that each PC is connected to each other**.
3. Chandcorps has become larger, so they relocate into a larger building, and they trusted you to build their network again. This agency wants **4 sub-network** under its **network** with **address 192.168.150.0/24**. The details are written below:
   * **Administrator – 58 computers**
   * **Markteing – 25 computers**
   * **Human Resource – 20 computers**
   * **Developer – 10 computers**

The corporation wants you to make the sub-network using **VLSM**. (**Network address, Broadcast address, Usable IP address, Subnet mask / CIDR**)

1. You are asked to create a LAN **connection** based on the picture below. **Open** the “**Case** **04**.**pka**” file and follow the instructions shown in the case **to** **create the routing configuration using static routing**.

Diagram

Description automatically generated