

2. Drop.

Drop is the distance between the wheel centerline and the center of the bottom bracket. More drop means easier standover, easier tip-toeing the ground when the other foot's in the pedal, a slightly better feel (subjective, not all will agree), and all else equal, higher handlebars. Yes, it even affects that, although it takes some thinking to figure out why, but it does.

Our 700c bikes have 7.7cm to 8cm drop---a lot, but not world record. Most production bikes have 7cm drop. That's typical.

The drop line needn't be too long, since it just has to hold a bb dot. But make it about as long as shown below, or heck, even longer...since it gives a good graphic feel for the bb-to-wheel center relationship.

$$350/4 = 87.5$$
$$80/4 = 20$$

1. You already drew this line, the wheel center line

2. This is the DROP line. At 8cm and quarter scale, that's 2cm below the wheel centerline

2cm (or 20mm)

wheel radius minus drop = bottom bracket height. In this case, that would be $350 - 80 = 270\text{mm}$ bb height. If you put a 700x 28 on this bike, the bb height would fall to 260mm, which is a reasonable minimum.

make a little dot on a crosshair right about here (toward left-center of paper) to represents the center of the bottom bracket, and is the launch point for some future dimensions. I'll try to remember to make all new lines pink.