

006-07-2 ekbishop Lego Part NX Lego Base with Parameters

Elle Bishop

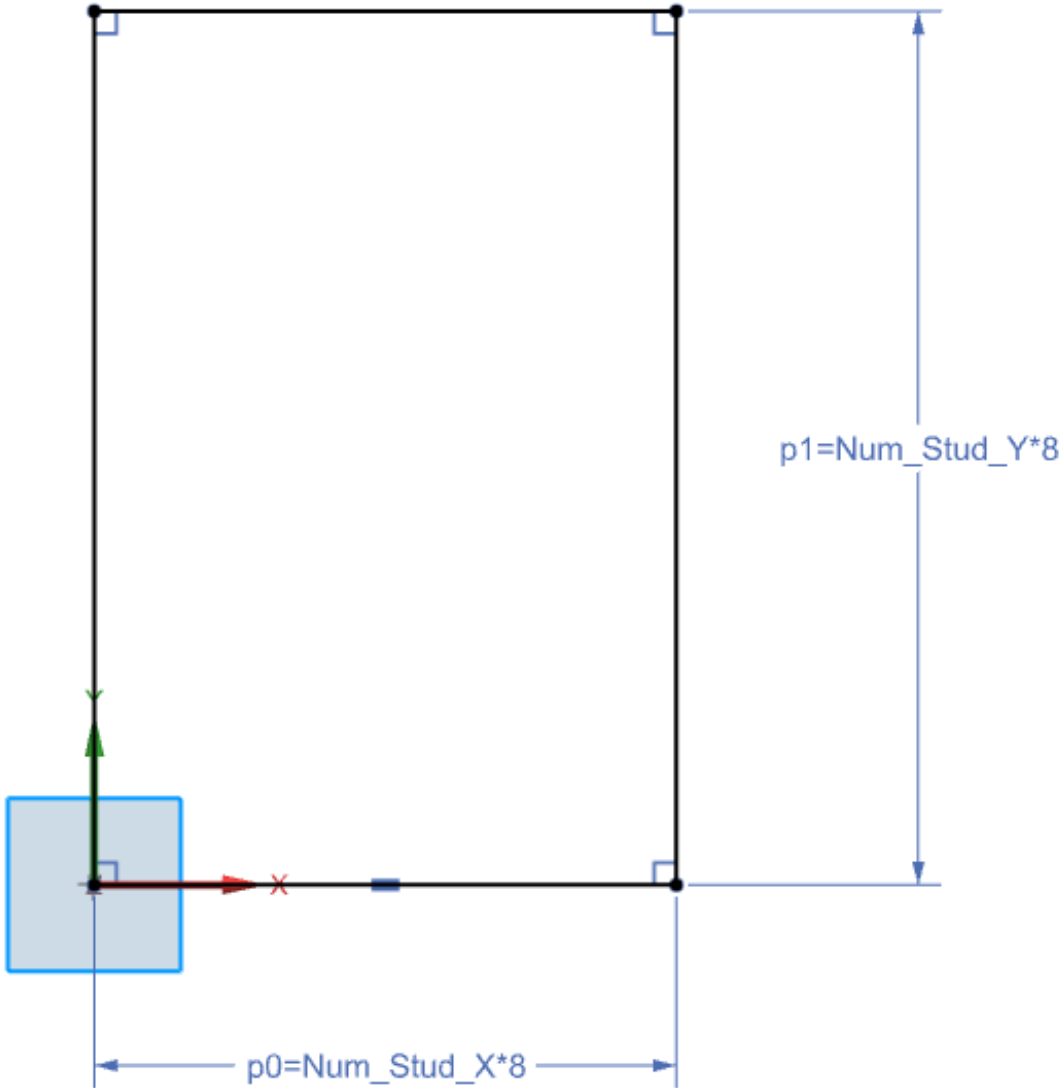
CGT 163

5/25/2022

AppsAnywhere

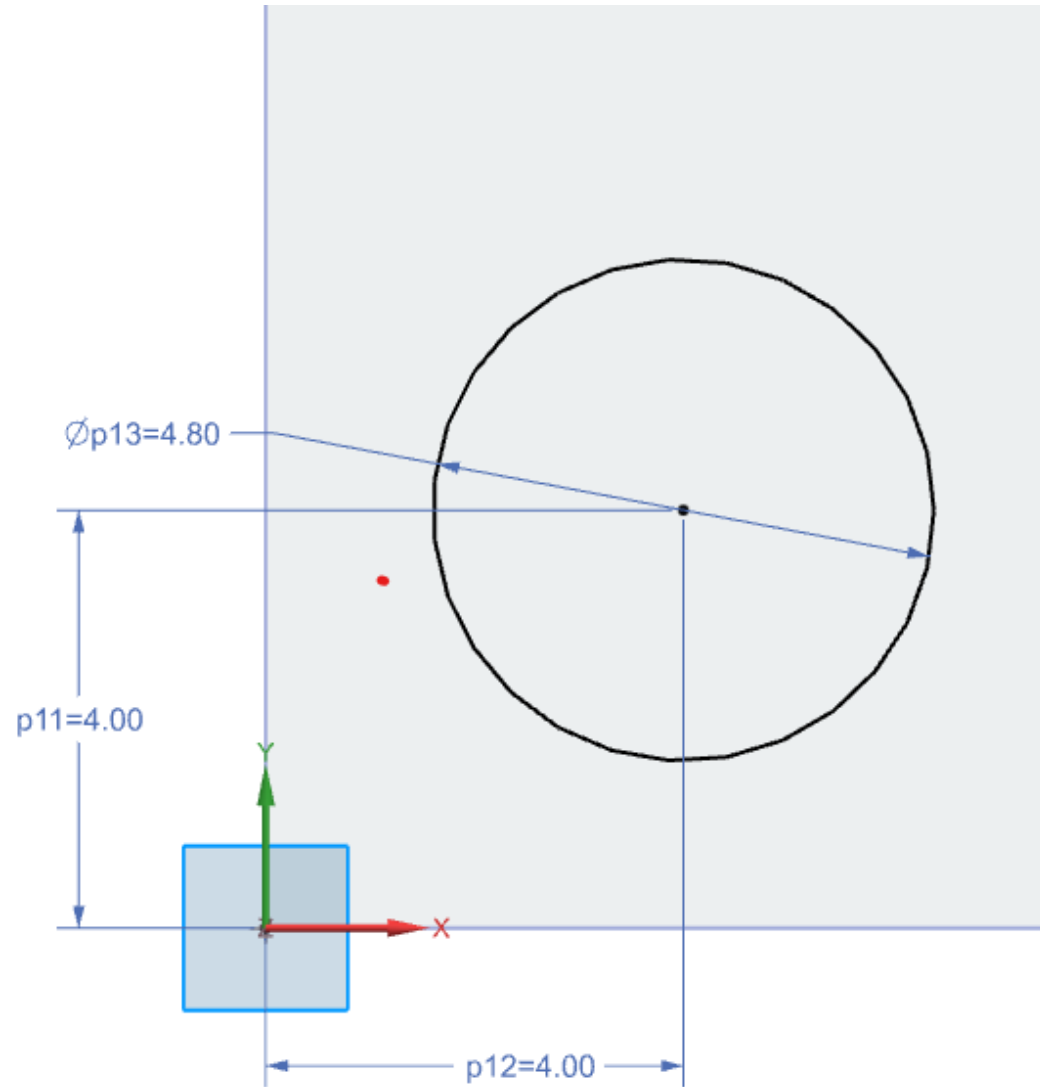
1.5 hours to complete

Step 4A



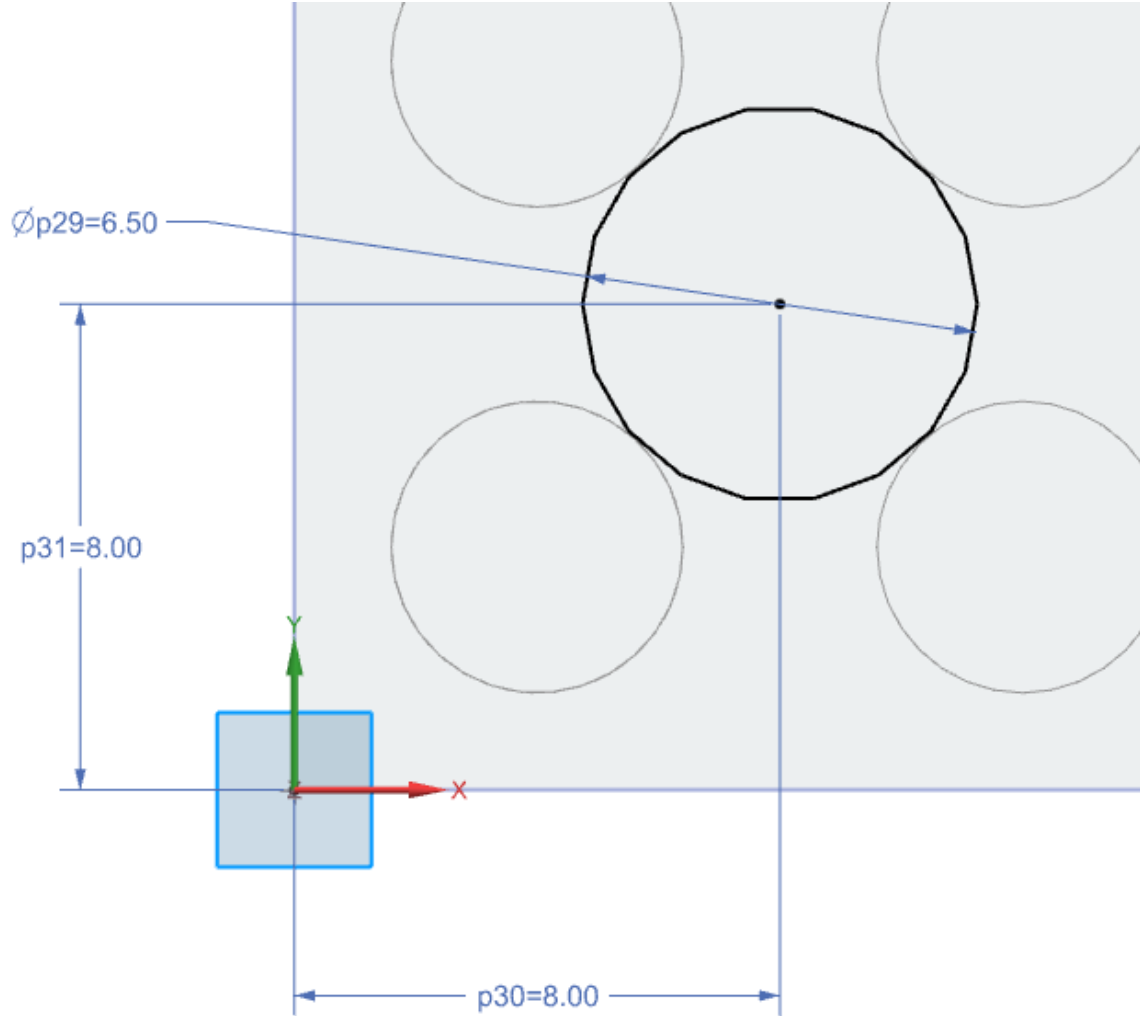
Sketch is fully constrained

Step 4B



Sketch is fully constrained

Step 4C



Copy **Sketch is fully constrained**

Step 4D

	↑ Name	Formula	Value
1	▼ Default Gro...		
2			
3	Num_St...	2	2
4	Num_St...	3	3
5	p0	Num_Stud_X*8	16
6	p1	Num_Stud_Y*8	24
7	p2	0	0
8	p3	if(Type="Brick")(9.6)else(3.2)	9.6
9	p4	0	0
10	p5	1.6	1.6
11	p11	4	4
12	p12	4	4
13	p13	4.8	4.8
14	p14	Num_Stud_Y	3
15	p15	8	8
16	p16	16	16
17	p17	Num_Stud_X	2
18	p18	8	8
19	p19	8	8
20	p20	0	0
21	p21	1.6	1.6
22	p22	0	0
23	p23	p3	9.6
24	p29	6.5	6.5
25	p30	8	8
26	p31	8	8
27	p80	4.8	4.8
28	p129	Num_Stud_Y-1	2
29	p130	8	8
30	p131	16	16
31	p132	Num_Stud_X-1	1

32	p133	8	8
33	p134	8	8
34	p135	0	0
35	Type	"Brick"	"Brick"

Step 5

Part Navigator 006-007-2 ekbishop Lego Part.prt x 006-07-1 ekbishop 122203 Assy.prt 006-07-1 ekbishop Create E

Name ▲

- + Model Views
- + ✓ Cameras
- User Expressions
 - = Num_Stud_X=2
 - = Num_Stud_Y=3
 - = Type="Plate"
- Model History
 - Datum Coordinate System (0)
 - Sketch (1) "BASE SKETCH"
 - Extrude (2) "Base Extrude"
 - Extrude (3) "Top Stud"
 - + ● Pattern Feature [Linear] (4) "Top Stud Pattern"
 - Shell (5) "Body Shell"
 - Extrude (6) "Clutch Boss"
 - Ø4.8 Hole (7) "Clutch Hole"
 - + ● **Pattern Feature [Linear] (8) "Clutch Pattern"**

Step 6

Part Navigator

Name ▲

+ Model Views

+ ✓ Cameras

- User Expressions

... = Num_Stud_X=2

... = Num_Stud_Y=3

... = Type="Plate"

- Model History

● Datum Coordinate System (0)

● Sketch (1) "BASE SKETCH"

● Extrude (2) "Base Extrude"

● Extrude (3) "Top Stud"

+ ● Pattern Feature [Linear] (4) "Top Stud Pattern"

● Shell (5) "Body Shell"

● Extrude (6) "Clutch Boss"

● Ø4.8 Hole (7) "Clutch Hole"

+ ● **Pattern Feature [Linear] (8) "Clutch Pattern"**

006-007-2 ekbishop Lego Part.prt

006-07-1 ekbishop 122203 Assy.prt

0

