Honors Statistics	Name	
5.3: Finding values	Period	_Date

Find the z-score that corresponds to the given cumulative area. If the area is not in the table, use the entry closest to the area. Make a sketch of the area.

1.	.0202	ຊ.	.2090
3.	.8023	4.	.6443
5.	.4364	6.	.0080
7.	.9916	8.	.7673
9.	.1500	10.	.6800

For # 11 - 14, assume that adult women have heights that are normally distributed with a mean of 63.6 in and a standard deviation of 2.5 in. Make a sketch of each question.

- 11. Find the height separating the top 15% from the others.
- 12. Find the height separating the top 55% from the others.
- 13. Find the height that represents P_{80} (80th percentile).
- 14. Find the height that represents P_{95} (95th percentile).

1	-2.05
2	81
3	.85
4	.37
5	16
6	-2.41
7	2.39
8	.73
9	-1.04
10	.47
11	66.2 in
12	63.275 in
13	65.7 in
14	67.7125 in
15	104.5, 127.5
16	44,120
17	42,300
18	99.5
19	74.41
20	65.5, 69.5
21	64.5
22	22,600