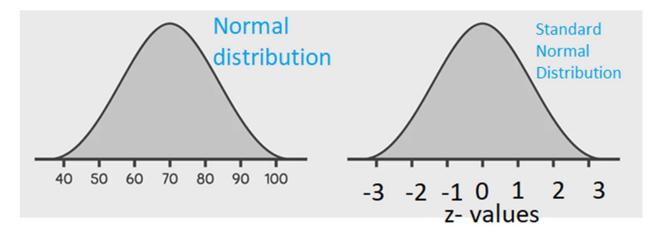
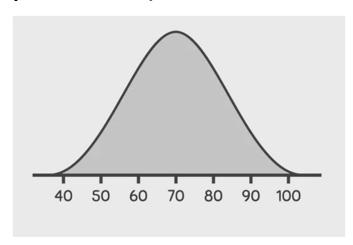
Assignments on Z score

$$Z = rac{(observed\ value\ -mean)}{SD}$$



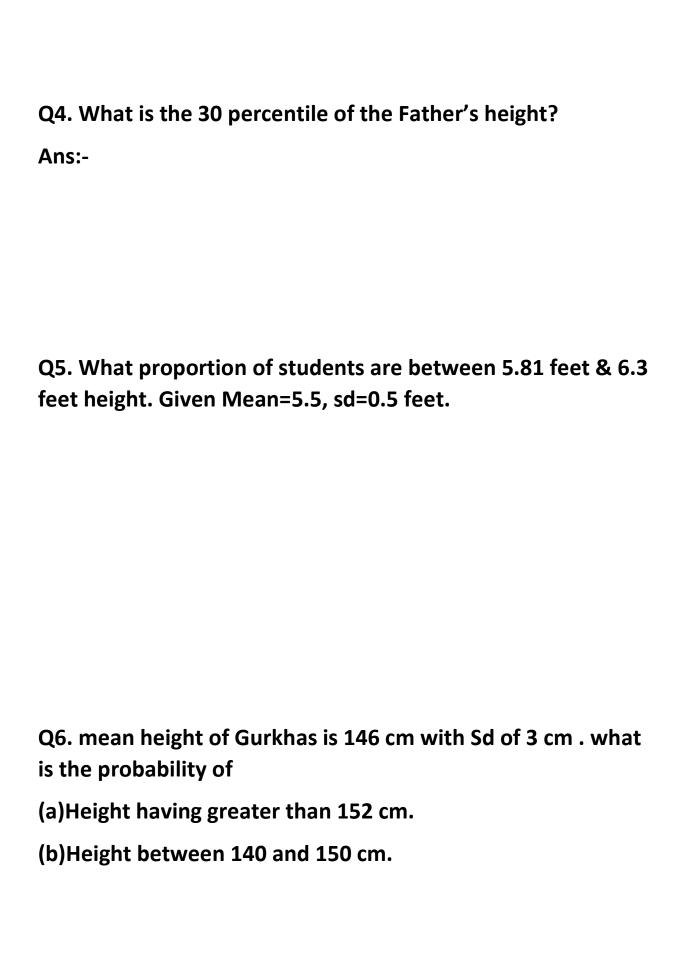
Q1. For a recent final written statistics exam for a "Data scientist" job selection process, the mean was 70 with a standard deviation of 10. If you scored 76 marks. What is your percentile or (area in the Normal distribution)?.



Q2. fathers' heights follow the normal curve with a mean of 68.3 inches and a standard deviation of 1.8 inches. What percentage of fathers have heights between 67.4 inch and 71.9 inch?

Q3. If you know that -0.1 corresponds to approximately 46 % and 1.8 corresponds to approximately 96.4 % (both percentages are areas under the curve to the left of the value), what percentage of fathers will have heights between 68.1 inc and 71.5 in?

Ans:-



- Q7. Mean demand of an oil is 1000 ltr per month with SD Of 250 ltr.
- (a)if 1200 ltrs are stocked, what is the satisfaction level?
- (b) For an assurance of 95%. what stock must be kept?