

## Question 1

Mean $\mu$	Standard deviation $\sigma$	Probability
12	3	$P(X < 9) = 0.1587$
30	5	$P(X < 25) = 0.1587$
5	2.2	$P(X > 6) = 0.3247$
245	18	$P(233 < X < 242) = 0.1813$

## Question 2

$$\mu = 165$$

$$\sigma = 20$$

Message me @ foxyinc@gmail.com

I will help you with the test

$$P(X < 190) \quad ; \quad z = \frac{190 - 165}{20} = 1.25$$

$$P(Z < 1.25) = 0.8944$$

## Question 3

$$\mu = 6.2$$

$$\sigma = 1.08$$

$$X = 5$$

$$z = \frac{5 - 6.2}{1.08}$$

$$= -1.11$$

$$P(X < 5) = P(Z < -1.11) = 0.1333$$

$$= 13.33\%$$