Given that,

Let x be a normal random variable with a mean of mu=30 and s.d ,sigma=3

Here we have to find the following probabilities

1. P(X<35.5)

Using excel,

**=NORM.DIST(35.5,30,3,TRUE)**

**Ans:C) P(X<35.5)=0.9666**

1. P(34<X<36)

Using excel,

**=NORM.DIST(36,30,3,TRUE)-NORM.DIST(34,30,3,TRUE)**

**Ans:A) P(34<X<36)=0.0685**