

- 21) $\mu = 10$, $\sigma = 2$ X $N(\mu, \sigma^2)$ $P(X > 14)$ $P(X < 6)$ $P(6 < X < 14)$
- 11) $P(X < 10) = 0.8$ $P(X < 12) = 0.9$ $P(X < 14) = 0.95$ $P(X < 16) = 0.99$
- 01) $\mu = 10$, $\sigma = 2$ X $N(\mu, \sigma^2)$ $P(X > 14)$ $P(X < 6)$ $P(6 < X < 14)$

- 2) $P(X > 14) = 1 - P(X < 14) = 1 - 0.95 = 0.05$
- 3) $P(X < 6) = P(Z < \frac{6-10}{2}) = P(Z < -2) = 0.054$
- 4) $P(6 < X < 14) = P(-2 < Z < 2) = 0.977 - 0.054 = 0.923$

- 6) $P(X < 10) = 0.8$ $P(X < 12) = 0.9$ $P(X < 14) = 0.95$ $P(X < 16) = 0.99$
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- 1) $P(Z < 1.6) = 0.9452$
- 2) $P(Z < 3) = 0.9987$
- 3) $P(Z < 1.5) = 0.9332$
- 4) $P(Z < 1.2) = 0.8849$

- 1) $P(Z < 1.6) = 0.9452$

8: $P(Z < 1.6) = 0.9452$ $P(Z < 3) = 0.9987$ $P(Z < 1.5) = 0.9332$ $P(Z < 1.2) = 0.8849$