



## Warm Up

# invNorm and invT

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Suppose  $Z$  is a standard normal random variable (a normal random variable with mean 0 and standard deviation 1), and  $T$  is a  $t$  random variable with 17 degrees of freedom.

1. Draw and shade a normal curve so that the area shaded represents  $P(-z \leq Z \leq z) = 0.90$ .
  
  
  
  
  
  
  
  
  
  
2. Find the value of  $z$  so that  $P(-z \leq Z \leq z) = 0.90$ . (You may use **invNorm** command on your calculator.) Round to 2 decimal places.
  
  
  
  
  
  
  
  
  
  
3. Draw and shade a  $t$ -curve so that the area shaded represents  $P(-t \leq T \leq t) = 0.90$ .
  
  
  
  
  
  
  
  
  
  
4. Find the value of  $t$  so that  $P(-t \leq T \leq t) = 0.90$ . (You may use the **invT** command or the  $t$ -tables.) Round to 2 decimal places.

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**MAIN IDEAS:** List the Main Ideas for Today's Lesson

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