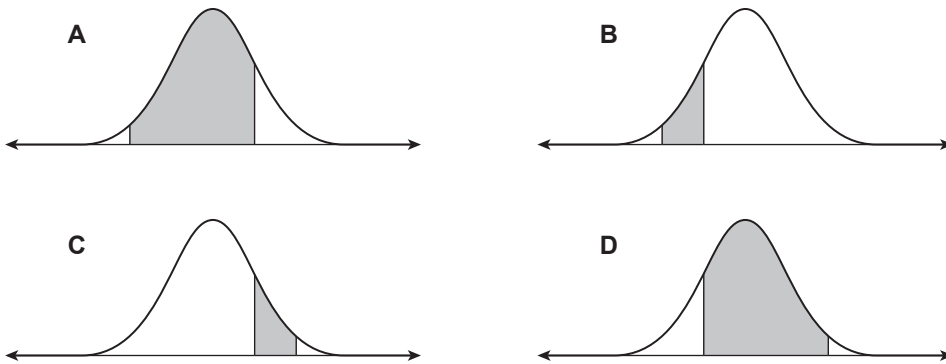


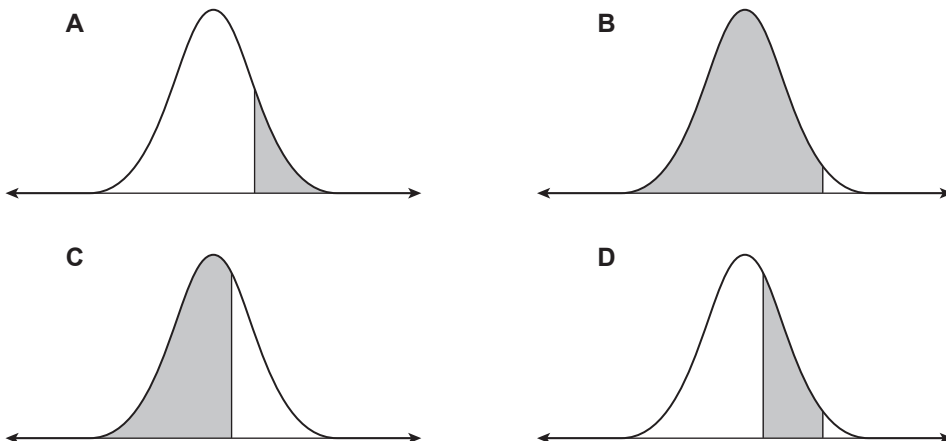
- (c) Each of the graphs below represents the normal distribution with mean $\mu = 12$ and standard deviation $\sigma = 2$.



Y is a normally distributed random variable with mean $\mu = 12$ and standard deviation $\sigma = 2$. Which *one* of graphs **A**, **B**, **C**, and **D** above best illustrates $\Pr(10 \leq Y \leq 16)$?

(1 mark)

- (d) Each of the graphs below represents the normal distribution with mean $\mu = 120$ and standard deviation $\sigma = 40$.



X is a normally distributed random variable with mean $\mu = 120$ and standard deviation $\sigma = 40$. Which *one* of graphs **A**, **B**, **C**, and **D** best illustrates $\Pr(X \leq 140)$?

(1 mark)