

$f(x; \mu, \sigma)$

0.25



The figure shows a normal distribution curve plotted on a grid. The vertical axis is labeled  $f(x; \mu, \sigma)$ . The horizontal axis is unlabeled. A vertical line is drawn at a point on the horizontal axis, and the area under the curve to the left of this line is shaded in light green. The number 0.25 is written inside the shaded area, indicating the cumulative probability up to that point.