19. The English department at a high school is selling a collection of poems written by seniors for $8. It costs $300 to use the printer plus $3.25 per book. If they print 600 books, how many do they have to sell to make at least $2000?

$2,000 PROFIT

PRINTER $300 FIXED COST

PER BOOK $3.25 VARIABLE COST

$3.25(600) + $300

$1,950 + $300 = $2,250

COST PROFIT

$2,250 + $2,000 = $4,250

$\frac{4250}{8} = 531.25$

THEY NEED TO SELL 532 BOOKS

16. Solve $\frac{5}{6} \geq -\frac{3}{8}b$.

$-\frac{8}{3}\left(\frac{5}{6}\right) \geq -\frac{8}{3}\left(-\frac{3}{8}b\right)$

$-\frac{20}{9} \leq b$

$-\frac{8}{3}\left(-\frac{3}{8}\right) = \frac{24}{24} = 1$

$-\frac{8}{3}\left(-\frac{3}{8}\right) = \frac{24}{24} = 1$