#8

$S = 2ab + 2bc + 2ac$

a)

$S - 2bc = 2ab + 2ac$

$S - 2bc = a(2b + 2c)$

$\frac{S - 2bc}{2b + 2c} = \frac{a(2b + 2c)}{2b + 2c}$

$\frac{S - 2bc}{2b + 2c} = a$

b) $a = \frac{158 - 2(5)(8)}{2(5) + 2(8)}$

$a = \frac{158 - 80}{10 + 16}$

$= \frac{78}{26}$

$a = 3$

#9

$M = 3A + 100$

a) $M - 100 = 3A$

$\frac{M - 100}{3} = \frac{3A}{3}$

$A = \frac{M - 100}{3}$

b) $A = \frac{400 - 100}{3}$

$= \frac{300}{3}$

$A = 100$