

Verizon: new phone \$45
\$10/month

AT&T: new phone \$30
\$15/month

M = # of months

T = Total cost

$$T = \$45 + \$10M$$

↑
cost of phone

↑
\$10 per month

$$T = \$30 + \$15M$$

↑
cost of phone

↑
\$15 per month

$$T = 45 + 10M$$

$$T = 30 + 15M$$

$$T = 45 + 10(3) = 75$$

$$T = 30 + 15(3) = 75$$

$$T = 75$$

$$\begin{array}{r}
 30 + 15M = 45 + 10M \\
 \underline{-10M} \quad \underline{-10M} \\
 30 + 5M = 45 \\
 \underline{-30} \\
 5M = 15 \\
 \underline{\div 5} \quad \underline{\div 5} \\
 M = 3
 \end{array}$$