

Finance Formula Prep

Objective 1: Solve for an indicated value in the formula $A = P(1 + rt)$

Example: Use the formula $A = P(1 + rt)$ to find A

when $P = 1000$, $r = 0.03$ and $t = \frac{5}{12}$

Example: Use the formula $A = P(1 + rt)$ to find P

when $A = 4200$, $r = 0.08$ and $t = \frac{11}{12}$

Example: Use the formula $A = P(1 + rt)$ to find t
when $A = 5000$, $P = 2000$ and $r = 0.12$

Example: Use the formula $A = P(1 + rt)$ to find r
when $A = 8000$, $P = 7000$ and $t = \frac{7}{12}$

Pause the video and try these problems.

In each of the following problems round your answer to two decimal places if necessary.

1. Use the formula $A = P(1 + rt)$ to find A when $P = 2000$, $r = 0.04$ and $t = \frac{7}{12}$

2. Use the formula $A = P(1 + rt)$ to find P when $A = 5100$, $r = 0.05$ and $t = \frac{5}{12}$

3. Use the formula $A = P(1 + rt)$ to find t when $A = 3000$, $P = 1000$ and $r = 0.11$

4. Use the formula $A = P(1 + rt)$ to find r when $A = 5000$, $P = 4000$ and $t = \frac{7}{12}$

Restart when you are ready to check your answers.

Objective 2: Solve for an indicated value in the formula $A = P\left(1 + \frac{r}{m}\right)^{mt}$

Example: Use the formula $A = P\left(1 + \frac{r}{m}\right)^{mt}$ to find A

when $P = 1000$, $r = 0.03$, $m = 4$ and $t = 5$

Example: Use the formula $A = P\left(1 + \frac{r}{m}\right)^{mt}$ to find P

when $A = 4500$, $r = 0.07$, $m = 12$ and $t = 7$

Pause the video and try these problems.

In each of the following problems round your answer to two decimal places if necessary.

1. Use the formula $A = P\left(1 + \frac{r}{m}\right)^{mt}$ to find A when $P = 1400$, $r = 0.04$, $m = 12$ and $t = 3$

2. Use the formula $A = P\left(1 + \frac{r}{m}\right)^{mt}$ to find P when $A = 3900$, $r = 0.06$, $m = 4$ and $t = 5$

Restart when you are ready to check your answers.

Objective 3: Solve for an indicated value in the formula $A = Pe^{rt}$

Example: Use the formula $A = Pe^{rt}$ to find A
when $P = 2000$, $r = 0.05$ and $t = 5$

Example: Use the formula $A = Pe^{rt}$ to find P
when $A = 5000$, $r = 0.08$ and $t = 7$

Pause the video and try these problems.

In each of the following problems round your answer to two decimal places if necessary.

1. Use the formula $A = Pe^{rt}$ to find A when $P = 4300$, $r = 0.06$ and $t = 4$

2. Use the formula $A = Pe^{rt}$ to find P when $A = 2700$, $r = 0.05$ and $t = 6$

Restart when you are ready to check your answers.