

1. Ryan wants to have a test average of a 75. Thus far, he has scored a 70, 64, 98 and 71 on his tests. What does he need to score on the last test to reach his goal?

$$\begin{aligned}
 (5) \quad & \frac{303 + X}{5} = 75(5) \\
 & \cancel{303} + X = 375 \\
 & - \cancel{303} \qquad - 303 \\
 & \hline
 & X = 72
 \end{aligned}$$

$X =$  next test score

72%

2. The following table represents money earned by Zach and Amy each week to save for a new iPad. How long will it take for them to both save the same amount of money?

Zach	$f(x) = 10x + 12$
Amy	$f(x) = 14x - 4$

$$\begin{aligned}
 10x + 12 &= 14x - 4 \\
 -14x & \qquad -14x \\
 \hline
 -4x + 12 &= -4 \\
 -12 & \qquad -12 \\
 \hline
 -4x &= -16 \\
 -4 & \qquad -4 \\
 \hline
 x &= 4
 \end{aligned}$$

4 wks