Read and interpret each word problem and choose the two-step equation that best represents the situation.

1) Scott picked $x$ pounds of blueberries from a local farm. He gave 3 pounds of his pick to his brother, Dean. He shared the remaining blueberries equally with his sister, Georgia. He now has 5 pounds of blueberries.

   a) $3 - x = 5$
   b) $\frac{x + 3}{2} = 5$
   c) $\frac{x - 3}{2} = 5$
   d) $\frac{x - 2}{3} = 5$

2) Mike owns a website which is a subscription worth $807.43. He charges $x$ as subscription fee. A customer cancels his subscription and Mike refunds the amount. Mike has a subscription fee worth $659.86 now.

   a) $659.86 - x = 807.43$
   b) $807.43x + 147.57 = 699.86$
   c) $807.43x + 147.57 = 807.43$
   d) $807.43x + 147.57 = 699.86$

3) Polly is planning a trip to the Bahamas. She has $25 on January 1st and saves $x$ every week for 40 weeks straight. She has now saved up a total of $825.

   a) $25x + 40 = 825$
   b) $825 + 40x = 25$
   c) $250x + 21.6 = 1114$
   d) $21.6x + 250 = 1114$

4) Susan buys 2 orange marigold and $x$ yellow marigold saplings. She plants them in 2 rows. Each row has 5 marigolds now.

   a) $2 + x \div 2 = 5$
   b) $2 - x = 2$
   c) $2 - x = 5$
   d) $2 + x \div 2 = 5$

5) Sean is employed as a truck driver. He drives $x$ hours in a week and is paid $21.6 per hour. He earns a total of $1114 in a week which includes a food allowance of $250.

   a) $21.6x - 250 = 1114$
   b) $250x + 21.6 = 1114$
   c) $21.6x + 250 = 1114$
   d) $21.6x + 1114 = 250$
Two-Step Equations - MCQ

Read and interpret each word problem and choose the two-step equation that best represents the situation.

1) Scott picked \( x \) pounds of blueberries from a local farm. He gave 3 pounds of his pick to his brother, Dean. He shared the remaining blueberries equally with his sister, Georgia. He now has 5 pounds of blueberries.

   a) \( 3 - x = 5 \)  
   b) \( \frac{x + 3}{2} = 5 \)
   c) \( \frac{x - 3}{2} = 5 \)  
   d) \( \frac{x - 2}{3} = 5 \)

   \( \checkmark \) \( \frac{x - 3}{2} = 5 \)

2) Mike owns a website which has subscription worth $807.43. He charges $x as subscription fee. A customer canceled his subscription and Mike refunded the amount. Mike has a subscription fee worth $659.86 now.

   a) \( 659.86 - x = 807.43 \)  
   b) \( 807.43 + 147.57 = 699.86 \)
   c) \( 807.43x + 147.57 = 699.86 \)  
   d) \( 699.86x + 147.57 = 807.43 \)

   \( \checkmark \) \( 807.43x + 147.57 = 699.86 \)

3) Polly is planning a cruise to the Bahamas. She has $25 on January 1st and saves $x every week for 40 weeks straight. She has now saved up a total of $825.

   a) \( 25x + 40 = 825 \)  
   b) \( 825 + 40x = 25 \)
   c) \( 40x - 25 = 825 \)  
   d) \( 250x + 21.6 = 1114 \)

   \( \checkmark \) \( 25x + 40 = 825 \)

4) Susan buys 2 orange marigold and \( x \) yellow marigold saplings. She plants them in 2 rows. Each row has 5 marigolds now.

   a) \( 2 + x = 5 \) 
   b) \( 2 - x = 2 \)  
   c) \( 2 - x = 2 \)  
   d) \( 2 - x = 5 \)

   \( \checkmark \) \( 2 + x = 5 \)

5) Sean is employed as a truck driver. He drives \( x \) hours in a week and is paid $21.6 per hour. He earns a total of $1114 in a week which includes a food allowance of $250.

   a) \( 21.6x - 250 = 1114 \)  
   b) \( 250x + 21.6 = 1114 \)
   c) \( 21.6x + 250 = 1114 \)  
   d) \( 21.6x + 1114 = 250 \)

   \( \checkmark \) \( 21.6x + 250 = 1114 \)