Two-Step Equations - MCQ

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

1) Janice had x color pencils in her box and shares them equally with her friend, Talia. Her brother gives her 2 more color pencils. Janice now has 3 pencils in her box.
   a) \( \frac{x}{2} + 3 = 2 \)  
   b) \( 2x - 2 = 3 \)
   c) \( \frac{x}{2} - 2 = 3 \)  
   d) \( \frac{x}{2} + 2 = 3 \)

2) A meteorologist measured the average rainfall received in Cities A and B. Both cities received 11 inches of rainfall in total. While City A received x inches of rain, City B experienced three times the amount of rainfall than City A.
   a) \( x + 3x = 11 \)  
   b) \( x - 3x = 11 \)
   c) \( 3x - x = 11 \)  
   d) \( 11 = -3x - x \)

3) Timothy spent a total of $68 at Macys. His purchases included a pair of jeans at $32 and 2 t-shirts at $x each.
   a) \( 2x - 32 = 68 \)  
   b) \( 2x + 32 = 68 \)
   c) \( 2x + 32 = -68 \)  
   d) \( 2x + 68 = 32 \)

4) A customer at a Mexican diner placed an order for 3 burrito bowls which was priced at $x each. He also ordered a plate of corn tacos at $12.96 and was billed for a total of $32.46.
   a) \( 3x + 12.96 = 32.46 \)  
   b) \( 2x - 32.46 = 12.96 \)
   c) \( 2x + 12.96 = 32.46 \)  
   d) \( 3x - 12.96 = 32.46 \)

5) Mr. Hewitt estimates the cost towards a fresh paint job for the exteriors of his home. He makes a provision for 12 gallons of paint priced at $x per gallon. The cost of paint supplies and miscellaneous expenses are $2264. The total estimated cost for the paint job is $2624.
   a) \( 12x - 2264 = 2624 \)  
   b) \( 12x + 2624 = 2264 \)
   c) \( 12x + 2264 = 2624 \)  
   d) \( 12x + 2624 = -2264 \)
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1) Janice had \(x\) color pencils in her box and shares them equally with her friend, Talia. Her brother gives her 2 more color pencils. Janice now has 3 pencils in her box.

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

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   b) \(x - 3x = 11\)  
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