

Two-Step Equations - MCQ

Sheet 1

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 buritto 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) $12x + 2624 = -2264$

Answer key**Two-Step Equations - MCQ**

Sheet 1

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 buritto 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) $12x + 2624 = -2264$