

**SOLVING TWO-STEP EQUATIONS**

**Solve.**

<p>1. If <math>2x + 6 = 10</math>, find the value of <math>x - 8</math>.</p>	<p>2. If <math>-52 = 0.75x - 4</math>, find the value of <math>3x + 4</math>.</p>
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**Write an equation for each situation, and then solve.**

<p>3. Thirty-two is twice a number increased by eight.</p> <p>Equation: _____</p>	<p>4. A number divided by five and then increased by four is sixteen.</p> <p>Equation: _____</p>
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<p>5. Two less than thirty percent of a number is sixty-four.</p> <p>Equation: _____</p>	<p>6. Negative five is 7 more than the product of three and a number.</p> <p>Equation: _____</p>
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<p>7. Katie is sending flowers to her friend for her birthday. The florist is selling lilies for \$0.60 each and the delivery fee is \$7.50. She has \$16.50 to spend on the flowers. How many flowers can she purchase for her friend?</p> <p>Equation: _____</p>
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8. The cost of a liter of soda is \$0.53 less than twice the cost of a gallon of water. If the cost of a liter of soda is \$1.25, what is the cost of a gallon of water?

Equation: \_\_\_\_\_

9. To rent a car from Car Rent-A Center Evan must pay \$25 plus an additional \$2 per mile that he drives. If Evan has a total of \$325 to spend on renting a car, how many miles can he afford to drive it?

Equation: \_\_\_\_\_

10. Phillip went to a music store that was going out of business and was selling all their merchandise for  $\frac{2}{3}$  of the original price. He also had a coupon that they had sent in the mail for \$20 off any musical instrument. Phillip found a guitar that would cost him \$242.50. What was the original price of the guitar?

Equation: \_\_\_\_\_

**Answers in random order:** -4, 150, 220, -6, 393.75, 12, 15, -188, 0.89, 60