

Name:

Date:

2-Step Equation Word Problems

Example

A new one-year membership at Roswell Tennis Center costs \$160. A registration fee of \$28 is paid up front, and the rest is paid monthly. How much do new members pay each month?

- a. What is the important information we need to answer the question?

- b. What will your variable represent?

- c. Write your equation.

$$\underline{\text{registration fee}} \quad + \quad \underline{\text{monthly cost per year}} \quad = \quad \underline{\text{your total cost for one-year}}$$

- d. Solve the equation.

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| <p>2. Jasmine's cell phone company charges her \$35 a month for phone service plus 0.50 for each text message. How many text messages does Jasmine send in a month if her bill was \$52?</p> <ol style="list-style-type: none">a. Write an equation using t for the number of text messages.b. Solve the equation. | <p>3. Caroline's Coffee Shop sells a refill mug for \$8.95. Each refill costs \$1.50. Last month Sean spent \$26.95 on a mug and refills. How many refills did he buy?</p> <ol style="list-style-type: none">a. Write an equation using r for the number of refills.b. Solve the equation. |
| <p>4. Elkins Pointe basketball team purchased equipment and uniforms for a total cost of \$912. The equipment cost 612 and the uniforms were \$25 each. How many uniforms did the school purchase?</p> <ol style="list-style-type: none">a. Write an equation using u for the number of uniforms.b. Solve the equation. | <p>5. The bill for the repair of a computer was \$179. The cost of parts was \$44, and labor charge was \$45 per hour. How many hours did it take to repair the computer?</p> <ol style="list-style-type: none">a. Write an equation using h for the number of hours it took to repair the computer.b. Solve the equation. |

6. Blake's Bowling Alley offers a special. Each game costs \$2.50 and the shoe rental \$2.00. You spend \$14.50 total. How many games did you bowl?
- a. Write an equation and solve.
7. Renting boats on a lake costs \$22 per hour plus a flat fee of \$10 for insurance. If you paid \$98 to rent the boat, how many hours did you rent the boat?
- a. Write an equation and solve.
8. The sum of the measures of the angles of all triangles is 180 degrees. If one angle of the triangle measures 45 degrees. The measure of the other 2 angles is equal. What is the measure of the other 2 angles?
- a. Write an equation and solve.
9. You and 3 friends are going to the County Fair. You have a coupon that will save your group \$20. If the total bill to get into the fair was \$100, how much does one regular price ticket to the fair cost?
- a. Write an equation and solve.
10. Ronaldo scored 4 goals in his first soccer game. He then scored the same amount of goals in his next 3 games. If Ronaldo has 10 goals total, how many did he score in each game?
- a. Write an equation and solve.
11. Raymond buys bottles of water at \$2 each and a large pizza at \$13. The total cost was \$21. How many bottles of water did Raymond buy?
- a. Write an equation and solve.

Answer Key

- 1a. One Year Membership \$160, 28 registration fee, 12 months in a year
1b. variable is cost per month
1c. $28 + 12m = 160$
1d. $m = \$11$
- 2a. $35 + 0.5t = 52$
2b. $t = 34$
- 3a. $8.95 + 1.5r = 26.95$
3b. $r = 12$
- 4a. $612 + 25u = 912$
4b. $u = 12$
- 5a. $44 + 45h = 175$
5b. $h = 3$
- 6a. $2.5g + 2 = 14.5$
6b. $g = 6$
7. $22h + 10 = 98$
 $h = 4$
8. $40 + 2a = 180$
 $a = 70$
9. $4p - 20 = 100$
 $p = 30$
10. $4 + 3g = 10$
 $g = 2$
11. $2b + 13 = 21$
 $b = 4$