

WRITING EQUATIONS

In 1-2, write an equation to represent the situation. Then, solve the equation.

1. Eddie ordered customized cups. He was charged a \$30 design fee plus \$8 per cup. His total order was \$334. How many cups did Eddie order?

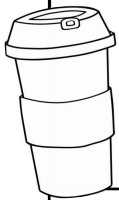
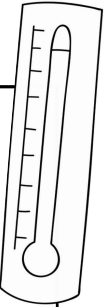
a. Equation: _____

b. Solution: _____

2. Damian is monitoring the temperature of the swimming pool. It is currently 86.8° and cooling 0.5° per minute. After how many minutes will the swimming pool be 80.8° ?

a. Equation: _____

b. Solution: _____



3. Create and write a real-world situation that could be represented by the equation below:

$$5x + 15 = 45$$

4. Determine if the statements below correctly describe the equation, $20 + 12x = 240$.

_____ a. Joanie earns \$12 per hour, plus a \$20 bonus for completing the training program. This week Joanie earned \$240.

_____ b. Isaiah is saving \$12 per week from his allowance. After 20 weeks, Isaiah has \$240.

_____ c. Felix exercises by spending 12 minutes warming up and then running for 20 minutes. He has exercised a total of 240 minutes this month.

5. Zoe and Claire are sisters. They are giving clues about their heights. Write an equation and solve to determine the height of both Zoe and Claire.

#1: Claire is twice as tall as Zoe.

#2: Together, Claire and Zoe are 108 inches tall.