## Unit 1 Challenge Questions

1. Suppose your dog has puppies at 2:00 p.m. and you call two friends. In 20 minutes they each call 2 friends to tell them the news. In 20 minutes, these friends each call 2 others. This continues all afternoon. Assuming that no one calls someone that already knows, how many people will know by 6:00 p.m.?
2. Which of these numbers is a result of squaring the base?
a. 35
b. 40
c. 44
d. 49
3. $(7+2) \div 3+$ 㝬 $^{2}=7 \quad$ Fill in the box with the missing number.
4. Mrs. Thompson is putting tile on her bathroom floor. Each tile measures 2 inches on each side. The bathroom floor is 3 feet long and 2 feet wide. How many tiles will she use to cover the entire floor?
5. Write an expression showing the order of operations and solve to find the answer.

In an apple orchard, 4 friends picked 3 bags of apples each and 15 extra apples. Each bag holds 10 apples. How many apples did the friends pick in all?

