**For Exercises 1-5, write a one or two-step equation for each problem. Then solve the equation. Show your work!**

**Equations written with the variable already isolated will not be accepted. NO: x = 24 – 14 YES: x + 14 = 24**

**1. CALORIES** A cookie has 82 calories less than a brownie. If a cookie has 66 calories, how many calories are in a brownie? Write an equation and solve.

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Work:**

**2. COUPON BOOKS** Laura sold 3.5 times as many coupon books as Karen. Laura sold 28 coupon books. Write an equation and solve to find how many books Karen sold.

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Work:**

**3. VOLUNTEERS** At a baseball game, 15 people volunteered to help serve food. If this represented of all the volunteers at the game, write and solve an equation to determine how many volunteers helped at the game.

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Work:**

**4. BASEBALL** It costs $15 to go to the batting cages. Buckets of baseballs to use in the batting cages cost $4 each. How many buckets can you buy if you have $43 to spend?

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Work:**

**5. SCHOOL SUPPLIES** Travis spent $10.22 at Target and bought 5 rolls of tape and a new math notebook. How much does a roll of tape cost if a notebook costs $5.87?

**Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Work:**

**6.)** Rachel is x years old. Mark is three times Rachel’s age. Together their ages total 56 years. Which of the following equations can be used to find Rachel’s age?

A. 𝑥 + 𝑥 + 3 = 56

B. 𝑥 + 3 = 56

C. 3𝑥 + 3𝑥 = 56

D. 3𝑥 = 56

E. 𝑥 + 3𝑥 = 56

**7.)** Mrs. Reynolds is going on a 4 day vacation to the beach and a concert at the end of the trip. The trip costs $430. Included in this price is the $40 for the concert ticket and the cost of the hotel each day.

a) Write and solve an equation representing the cost of the trip. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) How much did the hotel cost each day? \_\_\_\_\_\_\_\_\_