**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 $\frac{5}{16}$ 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? \_\_\_\_\_\_\_\_\_