Name _____  Date _____  Answer Key

# Two-Step Multiplication Word Problems

**Directions:** Solve the word problems. Be sure to show your work!

> **EXAMPLE:**
>
> Two sisters make 25 cookies each. Their mom eats 10 cookies. How many cookies do they have left? Write an equation to represent each step of the word problem.
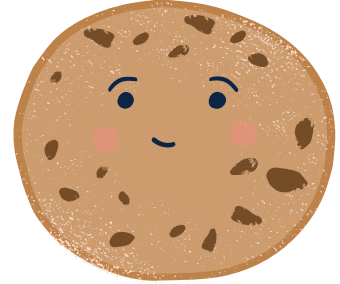>
> $25 \times 2 = 50$
> $50 - 10 = 40$ cookies
>
> OR
>
> $25 + 25 = 50$
> $50 - 10 = 40$ cookies

**1.** Maria and her cousin Jose are counting their coins. Maria has 25 coins. If Jose found 5 more coins to add to his existing collection, he would have double the number of coins Maria has. How many coins does Jose have?

$(25 \times 2) - 5 = 45$ coins     OR     $(25 + 25) - 5 = 45$ coins

**2.** Charlotte needs 58 apples to bake enough apple pies for the county fair. She has 40 apples. If apples are sold in bags of 6, how many more bags of apples does Charlotte need to buy?

$(58 - 40) \div 6 = 3$ bags     OR     Step 1: $58 - 40 = 18$
Step 2: Use repeated addition until you arrive at a total of 18, and then count the number of 6's.
$6 + 6 + 6 = 18$
Since there are three 6's, she needs 3 bags.

**3.** Eugene planted 3 flower beds in his garden. Each flower bed measures 2 feet long by 4 feet wide. What is the total area of the 3 flower beds in Eugene's garden?

$(2 \times 4) \times 3 = 24$ square feet     OR     Step 1: $2 \times 4 = 8$
Step 2: $8 + 8 + 8 = 24$ square feet

**4.** Jim and Joe water their vegetable garden with 30 cups of water through the week. Jim waters the garden on Sunday, Monday, Tuesday, and Wednesday. Each day, he uses 4 cups of water. Joe waters the garden on Thursday, Friday, and Saturday. Each day, he uses 3 cups of water. How many cups of water are left in the watering can at the end of the week?

$4 \times 4 = 16$
$3 \times 3 = 9$
$16 + 9 = 25$
$30 - 25 = 5$ cups of water left

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**5.** Adina purchases 45 pieces of chocolate. She gives each of her 4 friends 8 pieces of chocolate. How many pieces of chocolate does Adina have left?

45 - (4 × 8) = 13 pieces of chocolate    OR    Step 1: 8 + 8 + 8 + 8 = 32
                                                Step 2: 45 - 32 = 13 pieces of chocolate

**6.** Aren ran four 20-yard sprints on Wednesday and five 20-yard sprints on Thursday. How many total yards did Aren sprint on Wednesday and Thursday?

(4 × 20) + (5 × 20) = 180 yards    OR    20 + 20 + 20 + 20 = 80 yards and
                                          20 + 20 + 20 + 20 + 20 = 100 yards,
                                          so 80 + 100 = 180 yards

**7.** Mrs. Chan teaches writing. She has 16 students in her class, and each student has one pencil. Five more students join the class, and they have 3 pencils each. How many pencils are there in Mrs. Chan's writing class?

16 × 1 = 16
5 × 3 = 15
16 + 15 = 31 pencils

**8.** At the beginning of the week, Eito bought a total of 18 pounds of rice in 2 pound bags. By the end of his week, Eito had 4 pounds of rice left. How many 2-pound bags of rice did he use?

Step 1: 2 x ? = 18 / 2 × 9 = 18, so there are 9 bags    Step 2: 2 × ? = 4 / 2 × 2 = 4, so there
        or 18 ÷ 2 = 9 bags                                      are 2 bags left or 4 ÷ 2 = 2 bags left
        or 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 18    Step 3: 9 - 2 = 7 bags of rice used

**9.** Tamika and Sonia are wrapping presents for the holidays. Tamika cut a 60 inch-long piece of ribbon into 2 parts and gave Sonia one of the pieces of ribbon. Tamika's piece of ribbon is 20 inches long. Sonia cut her ribbon into 2 equal pieces. How long is one of Sonia's pieces of ribbon?

Step 1: 60 - 20 = 40 inches    OR    ? × 2 = 40 / 20 × 2 = 40, so 20 inches
Step 2: 40 ÷ 2 = 20 inches

**10.** Mrs. Gomez pours 60 ounces of orange juice into 9 cups in preparation for her birthday party. She measures an equal amount of orange juice into the first 8 cups. She pours the remaining amount into the ninth cup, which is 4 ounces. How many ounces of orange juice are in the first 8 cups?

Step 1: 60 - 4 = 56 ounces                OR    56 ÷ 8 = 7 ounces
Step 2: ? x 8 = 56 / 7 x 8 = 56, so 7 ounces