

# Represent and Solve Multi-Step Problems with Bar Models

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Interactive Examples

Use equations to solve.

11. Last week, Thi picked 4 baskets of 8 tomatoes from her garden. This week, she picked 3 baskets of 13 tomatoes. How many more tomatoes,  $t$ , does Thi pick this week than last week?
- \_\_\_\_\_
12. A costume designer sews 4 rows of 16 beads on a princess costume, 5 rows of 15 beads on a butterfly costume, and 3 rows of 17 beads on a ballerina costume. How many more beads,  $b$ , are sewn on the costume with the most beads than are sewn on the costume with the least number of beads?
- \_\_\_\_\_
13. Venancio needs to paint 8 game boards for the carnival. Each game board is divided into 12 parts. He paints 5 parts of 8 game boards yellow, 3 parts of 6 game boards red, 2 parts of 7 game boards green, and 15 parts purple. How many more parts,  $p$ , does Venancio have left to paint?
- \_\_\_\_\_
14. Mr. Gates buys frozen yogurt bars for the grade 5 picnic. He buys 3 packages of 12 strawberry yogurt bars and 6 packages of 8 banana yogurt bars. He gives an equal number of frozen yogurt bars to each of 3 classes. How many frozen yogurt bars,  $y$ , does each class get?
- \_\_\_\_\_

## Problem Solving

15. Rusty has a cap collection. He has 2 shelves with 9 football team caps on each shelf. He has 3 shelves with 11 baseball caps on each shelf. He gives his best friend 2 football caps and 3 baseball caps. How many caps,  $c$ , does Rusty have now?
- \_\_\_\_\_
16. Yuki pays \$3 for each of 4 headbands and \$2 for each of 5 barrettes. How much more money,  $m$ , does Yuki pay for all the headbands than for all the barrettes?
- \_\_\_\_\_

## Lesson Check

Fill in the bubble completely to show your answer.

17. Klein is using balloons to decorate for a party. She has 3 groups of 5 pink balloons and 4 groups of 3 yellow balloons. She also has 6 white balloons. Which equation could be used to find,  $b$ , the total number of balloons?
- (A)  $3 \times 5 + 4 \times 3 = b$   
(B)  $3 + 5 + 4 + 3 + 6 = b$   
(C)  $3 \times 5 + 4 \times 3 + 6 = b$   
(D)  $3 \times 5 \times 4 \times 3 = b$
18. For the bake sale, 6 people each bake two dozen oatmeal cookies. Each person eats 2 cookies and then delivers the remaining cookies to the bake sale. Which equation could be used to find,  $c$ , the number of oatmeal cookies at the bake sale?
- (A)  $6 \times 2 \times 12 - 6 \times 2 = c$   
(B)  $6 \times 12 - 6 \times 2 = c$   
(C)  $2 \times 12 - 6 \times 2 = c$   
(D)  $6 \times 2 - 6 \times 2 = c$
19. Jose used 15 inches of blue ribbon, 14 inches of yellow ribbon, and 3 feet of red ribbon to decorate his box of cookies. How many inches of ribbon did Jose use?
- (A) 65 inches  
(B) 32 inches  
(C) 93 inches  
(D) 29 inches
20. William used 10 ounces of plain milk and 4 pints of chocolate milk when making the restaurant milkshake recipe. How many ounces of milk did William use? (Hint: There are 16 ounces in a pint.)
- (A) 64 ounces  
(B) 40 ounces  
(C) 26 ounces  
(D) 74 ounces

## Spiral Review

21. Rona has 7 packs of 8 scented pens. She puts 12 pens in each of 4 bags. How many pens are left over?
- (A) 96  
(B) 56  
(C) 8  
(D) 4
22. A plant nursery has 1,054 plants to display. If each display has 92 plants, how many displays will be full?
- (A) 10  
(B) 11  
(C) 12  
(D) 15