

1.5 Solving Three-Step Problems and Choosing the Order

Chapter 1: Basic Problem Solving and Mathematical Modeling

Name: _____

Date: _____

Class/Period: _____

Problem 1.56 Directions:

Write a numbered plan before solving each problem.

A school buys 16 boxes of 30 markers. It gives 72 markers to the art room and shares the rest equally among 12 classes. How many markers does each class receive?

Problem 1.59 Directions:

Write a numbered plan before solving each problem.

A theater has 15 rows with 24 seats and 8 rows with 18 seats. If 96 seats are empty, how many people are seated?

Problem 1.57 Directions:

Write a numbered plan before solving each problem.

A farm collects 8 baskets of 36 apples and 6 baskets of 28 apples. It sells 180 apples. How many apples remain?

Problem 1.60 Directions:

Write a numbered plan before solving each problem.

A store receives 14 cases of 20 bottles and 9 cases of 16 bottles. It divides all bottles equally among 8 displays. How many bottles go on each display?

Problem 1.58 Directions:

Write a numbered plan before solving each problem.

A camp has 11 cabins with 16 campers each. Twenty campers leave early. The rest form 12 equal teams. How many campers are on each team?

Problem 1.61 Directions:

Write a numbered plan before solving each problem.

A library has 21 shelves with 26 books each. It donates 126 books and places the rest equally in 14 carts. How many books are on each cart?

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Problem 1.62 Directions:

Write a numbered plan before solving each problem.

A club sells 125 tickets on Friday and 167 on Saturday. Each ticket costs 4 dollars. The club spends 348 dollars. How much money remains?

Problem 1.65 Directions:

Write a numbered plan before solving each problem.

Plan A has 14 rows of 18 seats. Plan B has 11 rows of 22 seats. Which plan has more seats, and how many more?

Problem 1.63 Directions:

Write a numbered plan before solving each problem.

A warehouse loads 9 trucks with 48 boxes and 7 trucks with 36 boxes. It unloads 180 boxes. How many boxes remain loaded?

Problem 1.66 Directions:

Write a numbered plan before solving each problem.

A bakery makes 12 trays of 30 cookies and 8 trays of 24 cookies. It packs all cookies equally into 23 boxes. How many cookies go in each box?

Problem 1.64 Directions:

Write a numbered plan before solving each problem.

A school orders 22 packs of 18 notebooks. It gives 60 notebooks to the office and divides the rest equally among 12 classes. How many notebooks does each class receive?

Problem 1.67 Directions:

Write a numbered plan before solving each problem.

A farmer collects 525 eggs and buys 75 more eggs. After 96 are sold, the rest are packed equally into 21 cartons. How many eggs go in each carton?

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Problem 1.68 Directions:

Write a numbered plan before solving each problem.

A team earns 18 points in each of 7 games and 22 points in each of 5 games. It loses 40 points because of penalties. What is the final score total?

Problem 1.70 Directions:

Write a numbered plan before solving each problem.

A store has 17 shelves with 28 games each. It sells 140 games and places the rest equally in 14 bins. How many games are in each bin?

Problem 1.71 Directions:

Write a numbered plan before solving each problem.

A school receives 24 cartons of supplies. Each carton contains 18 notebooks and 12 folders. The school gives 120 total items to the office. The remaining items are shared equally among 12 classrooms.

Part A. Create a model showing the order in which the quantities must be found.

Part B. Determine the total number of items each classroom receives.

Part C. Explain why the notebooks and folders must be combined before the office supplies are subtracted.

Problem 1.69 Directions:

Write a numbered plan before solving each problem.

A camp has 240 campers. Forty-eight leave for a trip. The rest are split equally among 12 activities, and each activity forms 2 teams. How many campers are on each team?