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Introduction

Teachers need to provide their students with opportunities to practice their math skills in real-life situations. Many states mandate tests that contain questions that require students to understand the language of math and to apply the skills they have developed to answer the questions. This resource book was created to meet that need. It can be used with students in fourth through sixth grade.

The practice pages are divided into four sections. The first section provides an opportunity for teachers and students to solve the problems together. These are referred to as “Whole-Class” sheets. The second section contains “Independent Practice Cards.” Students may work on these cards with partners and when they are completed, they bring them up to get immediate feedback. The third section contains individual “Practice Sheets” for use in the classroom. Students can seek help from other classmates while solving the problems on these practice sheets. The fourth section contains worksheets to assign as homework. The homework pages allow the students opportunities to practice the skill of problem solving without the support of classmates and the teacher. Some students will need more support at home so included in this resource is a letter to the parents explaining the purpose of this type of math assignment and suggestions for helping their child.

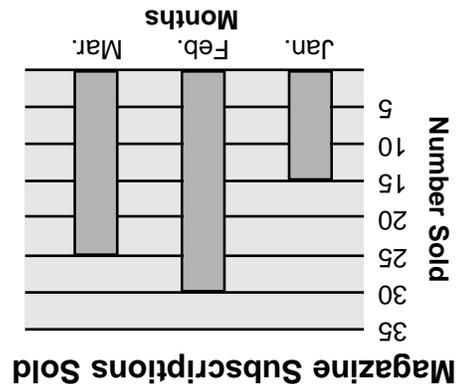
Finally, there are tests you can administer to assess a student’s mastery and use of some of the problem-solving methods they have learned throughout the book. Students have been encouraged to work with others to solve the problems, but it is important to measure how well they can solve problems on their own. Students should be reminded to do their own work so that the test serves as an accurate measurement of each student’s ability to tackle this type of question. A range of levels for the assessment tests has been provided in this section.



Independent Practice Card 3

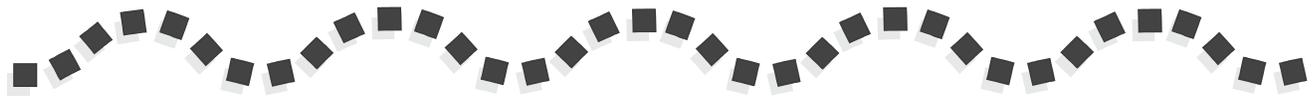
Show your work. Read each problem carefully. When you are done solving each problem, check your math and make sure you answered the question.

1. It took Ethan 50 minutes to put together a jigsaw puzzle. He started at 5:35 P.M. and worked without stopping. What time was it when he was done putting together the puzzle?



2. The graph shows how many magazines the fourth graders sold during a fundraiser for their school. If they earned \$3 for each magazine they sold, how much money did they earn in March?

Independent Practice (Card 3) (cont.)



Problem-Solving Test III

Directions: Use the circle graph to solve these word problems about ice cream flavors and restaurant favorites.

Favorite Ice Cream Flavors

This pie chart or circle graph shows the results of a survey of 100 third and fourth graders about their favorite types of ice cream.

1. Which ice cream flavor was the most popular?

2. Which ice cream flavors were the least popular?

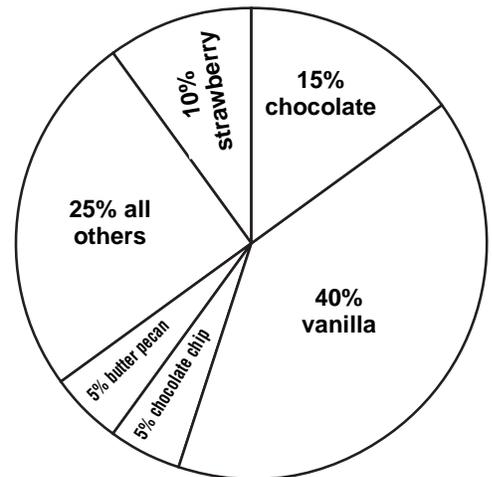
3. Which 2 flavors were equally popular?

4. Which flavor was two times as popular as chocolate chip?

5. Which flavor was eight times as popular as butter pecan?

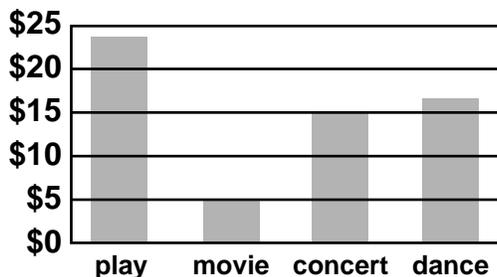
6. Which two flavors together were equal in popularity with the all-others category?

Ice Cream Preferences



Directions: Use the bar graph to answer each question.

Cost of Entertainment



7. About how much does it cost to see a play? _____
8. Which activity is the most expensive? _____
9. Which activity is the least expensive? _____
10. Which activity costs less, a concert or a dance?

11. About how much more does it cost to go to a dance than to a concert? _____
12. If you saw a play, a movie, a concert, and a dance in one month, about how much money would you spend? _____