Percent and Proportional Relationships

In this 18-lesson module, students deepen their understanding of ratios and proportional relationships as they explore a variety of percent problems. They convert between fractions, decimals, and percents to further develop a conceptual understanding of percent and use algebraic expressions, equations and other models such as tape diagrams as thms as thm

What is the whole unit in each scenario? *The number or quantity that another number or quantity is being compared to is called the whole.* Solution: Whole Unit What number is 10% of Fe Seventy percent (70%) of the students earned a B on the test. The 20 girls Seventy percent (70%) of the students earned a B on the test.

Part of a Whole as a Percent

Brad put crickets in his pet lizard's cage. After one day, Brad's lizard had eaten % of the crickets he had put in the cage. By the end of the next day, the lizard had eaten % of the remaining crickets. How many crickets were left in the cage at the end of the second day?

Solution:

Consider this: If you tried this problem and got an answer of 6 1/2 crickets, does your answer make sense? Explain.

Create a scale drawing of the picture to the right using a scale factor of %. Write three equations that show how you determined the lengths of three different parts of the resulting picture.

For a review of scale drawings, refer to Module 1 topic D.



