

Name: _____

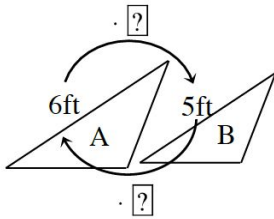
Date: _____ Per: _____

Lesson 7.1.2 Homework

7-21. Ameena's boat travels 35 miles per hour. The best fishing spot in the lake is 27 miles away from her starting point.

- If she drives her boat for $\frac{2}{3}$ of an hour, will she make it to the best fishing spot on the lake?
- How long will Ameena need to drive to get to the best fishing spot on the lake? Express your answer in both a portion of an hour and in minutes.

7-22. Use the triangles below right to answer the questions that follow.



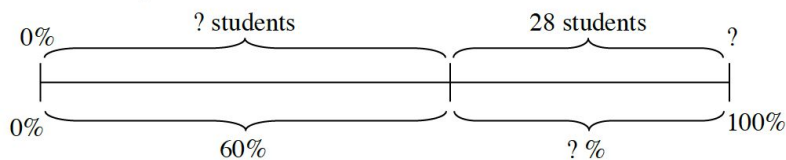
- What is the scale factor from A to B?
- What is the scale factor from B to A?
- What is the relationship of the scale factors?

7-23. Simplify each expression.

a. $\frac{1}{2}x + \frac{7}{12} + \frac{3}{5}x - \frac{2}{3}$

b. $5.3 - 2.8x - 7.1 + 3.9x$

7-24. Copy the diagram below on your paper. Use the given information to fill in all of the missing labels.



7-25. Alan is making a bouquet to take home to his grandmother. He needs to choose one kind of greenery and one kind of flower for his bouquet. He has a choice of ferns or leaves for his greenery. His flower choices are daisies, carnations, and sunflowers.

a. Draw a tree diagram to show the different bouquets he could make. How many are there?

b. What is the probability that he will use ferns?

c. What is the probability that he will not use sunflowers?

d. What is the probability that he will use leaves and carnations?