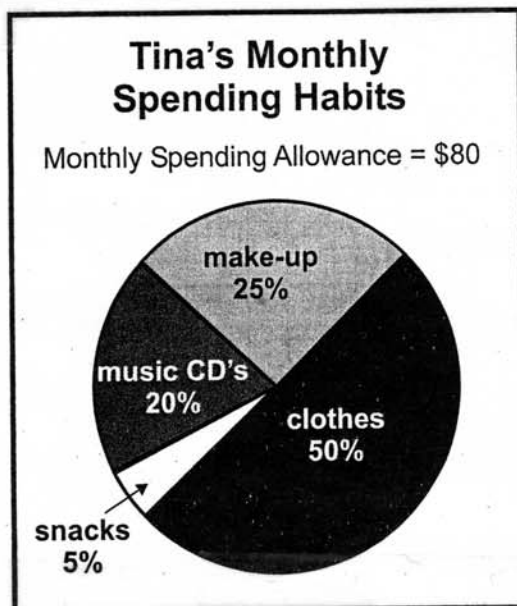
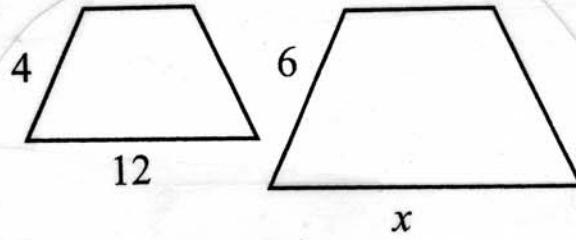


## Proficiency Proportion Problems:

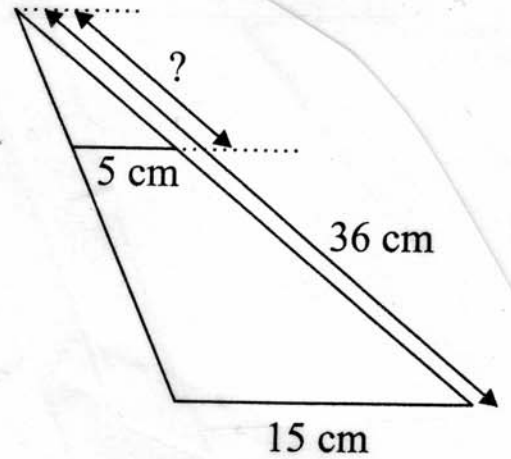
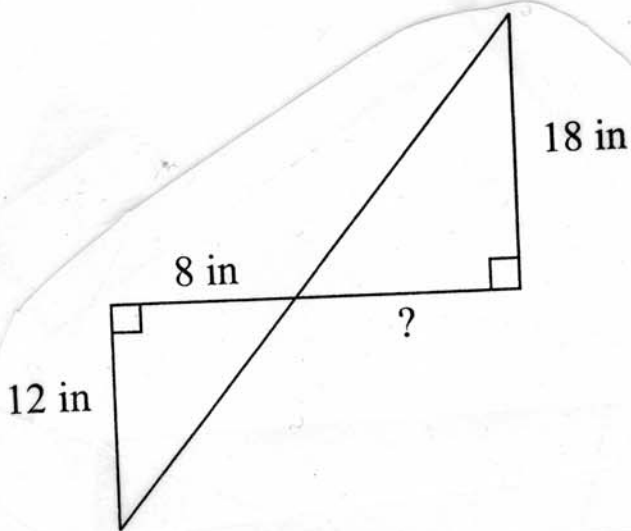
- 1) Su Lei went shopping at the mall. She found a sale for 25% off. If she saved \$20, how much was the original price?
- 2) Brandon wants to enlarge a photo that is 4 inches wide and 6 inches high to make a 24 inch wide poster. How high will the poster be?
- 3) If 0.5 inches on a map represents 50 miles, how long is a road represented by a line on the map that is 3.5 inches long?
- 4) At a certain college, the ratio of men to women is 6 to 5. If there are 3,000 men, how many women are there?
- 5) Selena was able to download 15 songs onto her iPod with the \$25 gift card she got for her birthday. How much money would she need to download 27 songs?
- 6) A hiker moves from one campsite to the next and travels 12.2 km in one day. How many millimeters did the hiker travel?
- 7) John drives on the interstate 60 miles per hour. How many feet per second is he traveling?
- 8) Which costs the most per ounce, 60 ounces of peanut butter for \$5.40, 28 ounces for \$2.24, or 16 ounces for \$1.76?
- 9) Spectators at the Super Circus were amazed to watch a canon shoot a clown 212 feet into a net in 4 seconds. How many feet per second did the clown travel?
- 10) Dr. Wolffe, the biologist, captures 20 fish out of a small lake behind his college. He fastens a marker onto each of these and throws them back into the lake. A week later, he again captures 20 fish. Of these, 2 have markers. How many fish could Dr. Wolffe estimate are in the pond?
- 11) How much money did Tina spend on snacks?



12) If the following figures are similar, what is the length of side  $x$ ?



13) What is the length of the unknown side of the figure?



14)

In the figure below, line  $a$  is parallel to line  $b$  and lines  $y$  and  $z$  are transversals. Find the measure of  $x$ .

