

# SET ME UP TWO WAYS APPLY ME



**Structure: RallyCoach (Activity 6)**

**Structure: Sage-N-Scribe (Activity 7)**

**Directions:**

**Activity 6: Write two different proportions for each problem.**

**Activity 7: Solve each proportion written in Activity 6.**

1. To estimate a deer population, forest rangers tagged fifteen deer. Six months later, they captured twenty-nine deer and of those captured, six were tagged. Estimate the number of deer in the forest. Round your answer to the nearest whole number.
2. Mosquito Control has a pesticide that covers one thousand two hundred square feet for each one and a half gallons used. How many gallons are needed to treat a seventy thousand square foot lake? Round your answer to the nearest tenth of a gallon.
3. The humane society uses sixteen pounds of dog food for fourteen dogs. If there are twenty dogs at the humane society, how much food is needed to feed them? Round your answer to the nearest pound.
4. Linda mows a six thousand, two hundred square foot lawn in three-fourths of an hour. How long will it take her to mow twelve thousand square feet? Round your answer to the nearest hundredth.
5. Three pounds of apples costs \$3.29. How many pounds of apples can be purchased for \$10? Round your answer to the nearest tenth.

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6. On a map the scale is half an inch is equal to thirty miles. How far apart are two cities on the map if they are actually one hundred forty miles apart? Round your answer to the nearest hundredth.
  
7. The scale on a blueprint is one foot is equal to one-eighth inch. How long is a wall that is one and five-sixteenths inches long on the blueprint? Round your answer to the nearest tenth.
  
8. Amy loves to hear the birds sing each morning, so she made a birdfeeder. If one and one half pounds of bird seed last twelve days, how many pounds of bird seed does she need for the month of September? Round your answer to the nearest hundredth.
  
9. A swimming pool holds eight thousand gallons of water. If water is flowing through a hose at a rate of two and one half gallons each minute, how long will it take to fill the pool? Put your answer in hours, then round to the nearest hundredth.
  
10. Brooke wants to make a nut mixture that contains two pounds of almonds for every three and one half pound of pecans. If she has twenty pounds of pecans, how many pounds of almonds does she need? Round your answer to the nearest pound.

Answers in teachers notes.