# Applying Ratios

In **1** through **8**, draw a diagram to solve the problem.

1. Sam puts 3 tulips and 4 lilacs in each vase. How many lilacs does Sam use if he puts 36 tulips into vases?

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2. Seven students ride the bus to school for every 2 students who walk. If there are 105 students who ride the bus, how many students walk?

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3. A golf store is having a special, giving away 10 free golf tees for every box of 3 golf balls a customer buys. If a customer buys 24 golf balls, how many golf tees does she get?

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4. Sarah's family has an apple orchard. The family sells 8 baskets of apples for every 3 jars of applesauce. How many baskets of apples do they sell if they sell 120 jars of applesauce?

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5. Martin enjoys hiking on rural trails near his home in Michigan. He can hike 6 miles in 2 hours. At this rate, how long would it take Martin to hike 24 miles?

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6. The coach mixes 15 scoops of powder with 2 gallons of water to make a sports drink for his team. How many scoops of powder does the coach need to mix with 10 gallons of water?

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7. A 4-pound bag of potatoes costs $3.16. At that rate, how much would 32 pounds of potatoes cost?

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8. Ali packs 54 cans into 3 boxes to ship. How many boxes of the same size will Ali need to ship 324 cans?

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9. **Algebra** Which value of $p$ makes the ratios equal?

   $$\frac{5}{7} = \frac{p}{56}$$

   **A** 8 **B** 13 **C** 40 **D** 64

10. **Writing to Explain** There are 4 girls to every 3 boys on the school's track team. Explain how to use a diagram to find how many members are on the track team if there are 16 girls on the team.

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