

Name \_\_\_\_\_

Orange Proportion  
Cards (use if absent)  
for activity

1. An orange juice concentrate is to be mixed with water so that the ratio of water to concentrate is 3 to 1. At this rate, how much concentrate should be mixed with 6 pints of water?
2. A shoe store sells 4 pairs of black shoes for every 7 pairs of brown shoes. There were 4,900 pairs of brown shoes sold last year. How many pairs of black shoes were sold?
3. At the Great Lakes Mall, 3 out of every 7 employees have a second job. There are 9,800 employees at the Great Lakes Mall. How many have a second job?
4. The ratio of box seats at the ball park to general-admission seats is 2 to 7. There are 2,500 box seats. How many general-admission seats are there?
5. At the airport, 4 planes land every 8 minutes. At this rate, how many planes will land in 1 hour? (Watch your units here!!!)
6. Jake can deliver 90 newspapers in 30 minutes. How long will it take him to deliver 135 newspapers?
7. Diana is making a mosaic pattern that uses 2 blue tiles for every 5 white tiles. How many blue tiles will she need if she is using 60 white tiles?
8. A necklace is made of 12 red beads and 18 orange beads. How many red beads would be needed if 90 orange beads are used?
9. A recipe calls for 4 cups of rice for every 5 cups of beans. How many cups of beans are needed for 10 cups of rice?
10. A certain color of paint is formed by mixing 2 parts yellow to 3 parts of blue. How much blue paint is needed to mix with 24 liters of yellow paint?
11. When gear A has completed 6 revolutions, how many revolutions will gear B have made?
12. While gear D is making 84 revolutions, how many revolutions will gear C have made?
13. When gear E has completed 76 revolutions, how many revolutions will gear F have made?