

## Independent Practice

HW

You can make predictions using ratios.

Example: 4 bananas weigh 12 ounces. How many bananas will you have if the total weight is 36 ounces?

$$\frac{4 \text{ bananas}}{12 \text{ ounces}} = \frac{? \text{ bananas}}{36 \text{ ounces}}$$

x 3



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x 3

12 x 3 is 36, so use a scale factor of 3. Since 4 x 3 is 12, you would have 12 bananas.

1. A map has a scale of 2 cm: 15 km. If two cities are 8 centimeters apart on the map, how many kilometers apart are they?
2. An 8-ounce can of mushrooms costs \$0.82. About how much will a 16-ounce can cost if the price per ounce remains constant?
3. In a bag of green and blue marbles, there are 8 green marbles for every 3 blue marbles. If there are a total of 99 marbles in the bag, how many are blue?
4. At a bookstore, 5 fiction books are sold for every 2 nonfiction books sold. If 35 books are sold, how many do you expect to be fiction?



5. A purple paint is made by mixing 3 parts blue paint to 2 parts red paint. If 6 parts red paint are used, how many parts blue should be used to create the purple paint?
6. Jan saves \$2 out of every \$5 she earns. If she earns \$35, how much should she save?
7. Two poodles eat 3 pounds of dog food each week. About how many pounds of dog food would be needed to feed 11 poodles in one week?
8. There are 2 children for every 3 adults at the movie theater. If there are 55 people at the theater, how many are children?
9. At a diner, 5 marshmallows are used for every 8 ounces of hot chocolate. If a customer orders a 24-ounce hot chocolate, how many marshmallows should be used?
10. A 700 megabyte CD can store 80 minutes of music. How many CDs would be needed to store 420 minutes of music?