

Name _____

Date _____

Unit Rates and Ratios of Fractions - Independent Practice Worksheet

Complete all the problems. Make sure to draw pictures to help you solve the problems.

1. Ethan writes $\frac{1}{6}$ of a page in $\frac{1}{12}$ of a minute. How much time does it take him to write a full page?



2. William fills $\frac{1}{3}$ of a water bottle in $\frac{1}{6}$ of a minute. How much time will it take him to fill the bottle?



3. Michael plays $\frac{1}{5}$ of a song in $\frac{1}{15}$ of a minute. How much time will it take him to play an entire song?



4. Gabriel used $\frac{1}{3}$ of a liter of milk to make $\frac{1}{9}$ of a jug of tea. How much milk is required to fill the jug?



5. Isaac used $\frac{1}{4}$ of an ounce of nuts to make $\frac{1}{12}$ pound of cake. How many ounces of nuts are needed to make a cake?



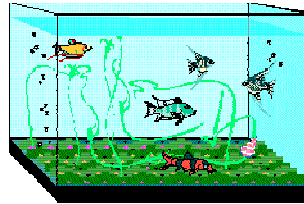
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6. Samuel used $\frac{1}{5}$ of an ounce of butter to make $\frac{1}{15}$ of a pound of jelly. How many ounces of butter are needed to make a pound of jelly?



7. Jacob used $\frac{1}{7}$ of a liter of water to fill $\frac{1}{9}$ of the fish aquarium. How many liters of water are needed to fill the aquarium?



8. Mason used $\frac{1}{6}$ of a gram of honey to make $\frac{1}{12}$ of a pan of pudding. How many grams of honey are needed to make a full pan of pudding?



9. Aiden walked $\frac{1}{8}$ of a mile in $\frac{1}{16}$ of an hour. Compute the unit rate as the complex fraction.



10. Noah eats $\frac{1}{3}$ of an apple in $\frac{1}{6}$ of a minute. How much time will it take him to eat a full apple?



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Unit Rates and Ratios of Fractions - Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem. Note: the units have been removed.

- _____ 1. Emma drank $\frac{1}{4}$ of a milk shake in $\frac{1}{12}$ of a minute. How many minutes will it take her to drink a full milk shake? a. $3 \frac{1}{2}$
- _____ 2. Sophia used $\frac{1}{3}$ of an ounce of cheese to make $\frac{1}{12}$ of a pound of pizza dough. How many ounces of cheese are needed to make a pound of pizza dough? b. $\frac{4}{17}$
- _____ 3. Addison plays $\frac{1}{2}$ of a song in $\frac{1}{8}$ of a minute. How many minutes will he need to play a full song? c. 6 mi/hr.
- _____ 4. Joey fills $\frac{1}{5}$ of a toffee box in $\frac{1}{25}$ of a minute. How much time will he take to fill a toffee box? d. $\frac{1}{4}$
- _____ 5. Claire power walks $\frac{1}{9}$ of a mile in $\frac{1}{54}$ of an hour. Compute the unit rate as the complex fraction. e. $\frac{1}{3}$
- _____ 6. Maya reads $\frac{1}{8}$ of a newspaper in $\frac{1}{20}$ of a minute. How many minutes does she need to read an entire paper? f. 4
- _____ 7. Ellie used $\frac{1}{6}$ of a liter of water to make $\frac{1}{21}$ of a casserole. How many liters of water does she need to make an entire casserole? g. $\frac{1}{5}$
- _____ 8. Stella writes $\frac{1}{7}$ of a page in $\frac{1}{15}$ of a minute. How many minutes does it take her to write a full page? h. $\frac{2}{5}$
- _____ 9. Lillian eats $\frac{1}{4}$ of a pound of grapes in $\frac{1}{17}$ of a minute. How many minutes will it take her to eat a full pound of grapes? i. $\frac{7}{15}$

