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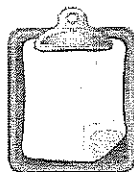
Date _____

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?

For what are we
looking for 1?



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?

For what are we
looking for 1?



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?



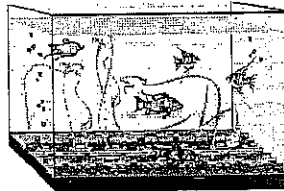
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6. Samuel used $\frac{1}{5}$ of an ounce of butter to make $\frac{1}{15}$ of a pound of jelly.
How many ounces of butter are needed to make a pound of jelly?



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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Recognizing Proportional Relationships - Independent Practice Worksheet

Solve all the problems.

- 11) Drew is an artist. He paints portraits. The table below shows number of portraits painted in hours. Do the numbers in the table represent a proportional relationship?



Number of portraits	Time (In Hours)
1	5
2	10
3	15
4	20

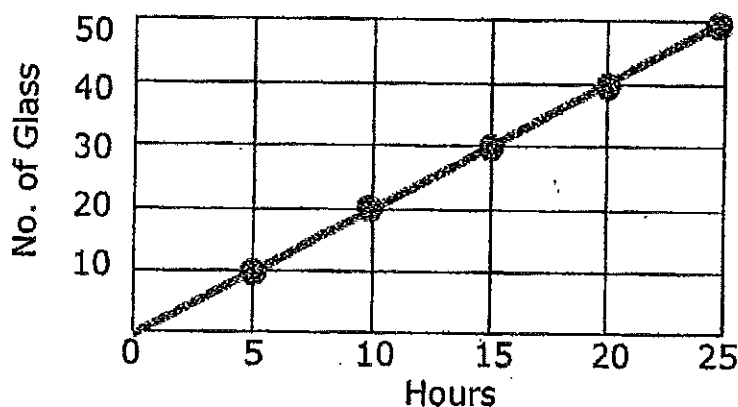
- 12) This table shows the amount earned by Harry for selling cups of ice cream. Do the numbers in the table represent a proportional relationship?

Cups sold (km)	Earnings (\$)
3	12
5	20
7	28
9	36

- 13) Fred wrote notes during an examination. The table below shows number of pages written in relation to the time it took to make the notes (in hours). Does the table represent a proportional relationship?

Notes (pages)	Time (In Hours)
8	16
9	18
10	20
11	23

14. The graph below represents the number of glasses Tom drank over time. What is the constant of proportionality?



15. Mason made omelettes. Create a graph to determine if there is a proportional relationship between the number of eggs used and the number of omelettes made. If the quantities are proportional, what is the constant of proportionality?

Number of Eggs	3	6	9	12	15
Number of omelette	6	12	18	24	30

16. Isabella made necklaces with beads. Create a graph to determine if the quantities of beads and necklace are proportional. If the quantities are proportional, what is the constant of proportionality?

Number of Necklace	2	4	6	8	10
Number of Beads	7	14	21	28	35