	Using Units Rates with Fractions Name:	
Solv	e each problem. Answer as a mixed number (if possible).	Answers
1)	A container with $3\frac{1}{3}$ gallons of weed killer can spray $3\frac{1}{4}$ lawns. How many gallons would it take to spray 7 lawns?	1
2)	A cookie recipe called for $3^{1/2}$ cups of sugar for every $3^{1/2}$ cups of flour. If you made a batch of cookies using 4 cup of flour, how many cups of sugar would you need?	2 3
3)	A machine made $3\frac{1}{6}$ pencils in $\frac{2}{3}$ of a minute. It made pencils at a rate of how many per minute?	4. 5.
4)	It takes $2\frac{1}{2}$ spoons of chocolate syrup to make $\frac{1}{2}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?	6. 7.
5)	A water faucet leaked $2\frac{3}{4}$ liters of water every $\frac{1}{2}$ of an hour. It leaked at a rate of how many liters per hour?	8 9
6)	A printer cartridge with $2\frac{5}{6}$ milliliters of ink will print off $\frac{2}{4}$ of a box of paper. How many milliliters of ink will it take to print an entire box?	10
7)	A bike tire was $\frac{2}{3}$ full. It took a small air compressor $3\frac{1}{6}$ seconds to fill it up. How long would it have taken to fill an empty tire?	
8)	A carpenter goes through $3^2/_3$ boxes of nails finishing $3^2/_6$ of a roof. How much would he use finishing the entire roof?	
9)	A chef had to fill up $2\frac{4}{6}$ containers with mashed potatoes. He ended up using $2\frac{1}{2}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up 6 containers?	
10)	It takes $3\frac{3}{6}$ gallons of water to fill up $3\frac{4}{6}$ containers. How much water would it take to fill 9 containers?	

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3)	A machine made $3\frac{1}{6}$ pencils in $\frac{2}{3}$ of a minute. It made pencils at a rate of how many per minute?	4. 57_{2} 5. $5^{2}/_{4}$
4)	It takes $2\frac{1}{2}$ spoons of chocolate syrup to make $\frac{1}{2}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?	6. $\frac{5}{12}$ 7. $\frac{4^{9}}{12}$
5)	A water faucet leaked $2\frac{3}{4}$ liters of water every $\frac{1}{2}$ of an hour. It leaked at a rate of how many liters per hour?	8. $7/_9$ 9. $5^{20}/_{32}$
6)	A printer cartridge with $2\frac{5}{6}$ milliliters of ink will print off $\frac{2}{4}$ of a box of paper. How many milliliters of ink will it take to print an entire box?	10. 8 / ₁₃₂
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Solve each problem. Answer as a mixed number (if possible). <u>Answers</u>										
	5 ⁸ / ₁₂	$4^{0}/_{14}$	$7^{3}/_{9}$	5 ²⁰ / ₃₂	$7^{7}/_{39}$	1				
	4 ⁹ / ₁₂	8 ⁷⁸ / ₁₃₂	$5^{2}/_{4}$	$5^{0}/_{2}$	4 ⁹ / ₁₂	1				
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