Using Units Rates with Fractions

Name:

Solve each problem. Answer as a mixed number (if possible).

1) A cookie recipe called for $2\frac{4}{5}$ cups of sugar for every $\frac{1}{2}$ cup of flour. If you made a batch of cookies using 1 cup of flour, how many cups of sugar would you need?

2) A tire shop had to fill $3\frac{3}{6}$ tires with air. It took a small air compressor $3\frac{5}{6}$ seconds to fill them up. How long would it take to fill 2 tires?

3) A carpenter goes through $3\frac{1}{4}$ boxes of nails finishing $\frac{1}{2}$ of a roof. How much would he use finishing the entire roof?

4) A container with $3\frac{2}{3}$ gallons of weed killer can spray $2\frac{1}{2}$ lawns. How many gallons would it take to spray 5 lawns?

5) It takes $2\frac{3}{6}$ kilometers of thread to make $2\frac{1}{3}$ boxes of shirts. How many kilometers of thread will it take to make 2 boxes?

6) A printer cartridge with $2\frac{1}{2}$ milliliters of ink will print off $\frac{1}{2}$ of a box of paper. How many milliliters of ink will it take to print an entire box?

7) A machine made $2\frac{1}{3}$ pencils in $\frac{2}{3}$ of a minute. It made pencils at a rate of how many per minute?

8) A chef had to fill up $2\frac{4}{5}$ containers with mashed potatoes. He ended up using $3\frac{4}{6}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up 7 containers?

9) A water faucet leaked $3\frac{5}{6}$ liters of water over the course of $3\frac{4}{5}$ hours. How many liters would it have leaked after 5 hours?

10) It takes $2\frac{2}{4}$ gallons of water to fill up $2\frac{1}{4}$ containers. How much water would it take to fill 8 containers?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Using Units Rates with Fractions Name: **Answer Key**

Solve each problem. Answer as a mixed number (if possible).

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Answers

1. $5\frac{3}{5}$
2. $2\frac{24}{126}$
3. $6\frac{2}{4}$
4. $7\frac{5}{15}$
5. $2\frac{6}{42}$
6. $5\frac{0}{2}$
7. $3\frac{3}{6}$
8. $9\frac{14}{84}$
9. $5\frac{5}{114}$
10. $8\frac{32}{36}$

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$5\frac{5}{114}$	$5\frac{0}{2}$	$2\frac{24}{126}$	$8\frac{32}{36}$	$9\frac{14}{84}$

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