Using Units Rates with Fractions

Name:

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

1) A chef had to fill up $\frac{1}{6}$ of a container with mashed potatoes. He ended up using $2\frac{2}{5}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up the entire container?

2) A cookie recipe called for $2\frac{4}{6}$ 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?

3) A printer cartridge with $3\frac{1}{2}$ milliliters of ink will print off $\frac{3}{4}$ of a box of paper. How many milliliters of ink will it take to print an entire box?

4) A carpenter goes through $2\frac{1}{6}$ boxes of nails finishing $3\frac{2}{6}$ rooves. How much would he use finishing 7 rooves?

5) A machine made $3\frac{2}{5}$ pencils in $3\frac{2}{4}$ minutes. How many pencils would the machine have made after 2 minutes?

6) A container with $2\frac{2}{6}$ gallons of weed killer can spray $3\frac{3}{4}$ lawns. How many gallons would it take to spray 5 lawns?

7) A bag with $2\frac{2}{3}$ quarts of peanuts can make $2\frac{2}{3}$ jars of peanut butter. How many quarts of peanuts would you need to make 4 jars?

8) A bike tire was $\frac{1}{3}$ full. It took a small air compressor $3\frac{1}{3}$ seconds to fill it up. How long would it have taken to fill an empty tire?

9) A bucket of water was $\frac{2}{4}$ full, but it still had $2\frac{3}{4}$ gallons of water in it. How much water would be in one fully filled bucket?

10) A water faucet leaked $2\frac{1}{3}$ liters of water over the course of $2\frac{3}{6}$ hours. How many liters would it have leaked after 5 hours?

Answers

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

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

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Answers

1. $14\frac{2}{5}$
2. $5\frac{2}{6}$
3. $4\frac{4}{6}$
4. $4\frac{66}{120}$
5. $1\frac{66}{70}$
6. $3\frac{10}{90}$
7. $4\frac{0}{24}$
8. $10\frac{0}{3}$
9. $5\frac{4}{8}$
10. $4\frac{30}{45}$

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$4\frac{0}{24}$	$4\frac{66}{120}$	$3\frac{10}{90}$	$4\frac{30}{45}$	$4\frac{4}{6}$
$5\frac{2}{6}$	$5\frac{4}{8}$	$14\frac{2}{5}$	$1\frac{66}{70}$	$10\frac{0}{3}$

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