Using Units Rates with Fractions

Name:

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

1) A bucket of water was $\frac{1}{2}$ full, but it still had $2\frac{2}{4}$ gallons of water in it. How much water would be in one fully filled bucket?

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

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

4) A cookie recipe called for $3\frac{4}{6}$ cups of sugar for every $\frac{5}{6}$ cup of flour. If you made a batch of cookies using 1 cup of flour, how many cups of sugar would you need?

5) A printer cartridge with $3\frac{2}{3}$ milliliters of ink will print off $2\frac{2}{3}$ reams of paper. How many milliliters of ink will it take to print 3 reams?

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

7) A bag with $3\frac{1}{3}$ quarts of peanuts can make $2\frac{2}{3}$ jars of peanut butter. How many quarts of peanuts would you need to make 8 jars?

8) It takes $2\frac{3}{6}$ 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?

9) A chef had to fill up $2\frac{2}{3}$ 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 5 containers?

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

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. $5\frac{0}{4}$
2. $6\frac{10}{25}$
3. $1\frac{9}{35}$
4. $4\frac{12}{30}$
5. $4\frac{3}{24}$
6. $5\frac{2}{6}$
7. $10\frac{0}{24}$
8. $5\frac{0}{6}$
9. $4\frac{11}{16}$
10. $1\frac{6}{14}$

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$4\frac{12}{30}$	$1\frac{9}{35}$	$4\frac{11}{16}$	$6\frac{10}{25}$	$5\frac{0}{4}$
$4\frac{3}{24}$	$5\frac{2}{6}$	$10\frac{0}{24}$	$1\frac{6}{14}$	$5\frac{0}{6}$

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