Using Units Rates with Fractions

Name:

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

1) It takes $3\frac{1}{4}$ kilometers of thread to make $2\frac{1}{2}$ boxes of shirts. How many kilometers of thread will it take to make 3 boxes?

2) A cookie recipe called for $2\frac{1}{5}$ cups of sugar for every $3\frac{1}{2}$ cups of flour. If you made a batch of cookies using 9 cup of flour, how many cups of sugar would you need?

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

4) A bag with $2\frac{2}{5}$ ounces of peanuts can make $\frac{1}{3}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

5) It takes $2\frac{1}{3}$ gallons of water to fill up $2\frac{2}{5}$ containers. How much water would it take to fill 5 containers?

6) It takes $3\frac{1}{2}$ spoons of chocolate syrup to make $3\frac{2}{3}$ gallons of chocolate milk. How many spoons of syrup would it take to make 3 gallons of chocolate milk?

7) A chef had to fill up $\frac{4}{5}$ of a container 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 the entire container?

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

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

10) A container with $3\frac{1}{2}$ liters of weed killer can spray $\frac{2}{4}$ of a lawn. How many liters would it take to spray 1 entire lawn?

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. $3\frac{18}{20}$
2. $5\frac{23}{35}$
3. $10\frac{0}{6}$
4. $7\frac{1}{5}$
5. $4\frac{31}{36}$
6. $2\frac{19}{22}$
7. $3\frac{1}{8}$
8. $5\frac{20}{36}$
9. $4\frac{24}{69}$
10. $7\frac{0}{4}$

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$4\frac{31}{36}$	$3\frac{1}{8}$	$5\frac{23}{35}$	$7\frac{1}{5}$	$7\frac{0}{4}$

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