Using Units Rates with Fractions

Name:

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

1) A carpenter goes through $2\frac{2}{6}$ boxes of nails finishing $\frac{4}{5}$ of a roof. How much would he use finishing the entire roof?

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

3) A bucket of water was $\frac{1}{6}$ full, but it still had $3\frac{2}{4}$ gallons of water in it. How much water would be in one fully filled bucket?

4) It takes $3\frac{4}{6}$ 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?

5) A machine made $2\frac{3}{4}$ pencils in $3\frac{1}{2}$ minutes. How many pencils would the machine have made after 4 minutes?

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

7) A cookie recipe called for $3\frac{2}{4}$ cups of sugar for every $\frac{1}{4}$ cup of flour. If you made a batch of cookies using 1 cup of flour, how many cups of sugar would you need?

8) A water faucet leaked $3\frac{1}{4}$ liters of water every $\frac{4}{6}$ of an hour. It leaked at a rate of how many liters per hour?

9) A bike tire was $\frac{3}{5}$ full. It took a small air compressor $3\frac{1}{5}$ seconds to fill it up. How long would it have taken to fill an empty tire?

10) A chef had to fill up $2\frac{3}{4}$ containers with mashed potatoes. He ended up using $2\frac{1}{5}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up 3 containers?

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. $2\frac{22}{24}$
2. $4\frac{7}{42}$
3. 21
4. $7\frac{2}{6}$
5. $3\frac{4}{28}$
6. $1\frac{16}{56}$
7. 14
8. $4\frac{14}{16}$
9. $5\frac{5}{15}$
10. $2\frac{22}{55}$

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$1\frac{16}{56}$	21	$2\frac{22}{55}$	$7\frac{2}{6}$	$4\frac{14}{16}$
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