Using Units Rates with Fractions

Name:

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

1) A container with $3\frac{2}{6}$ liters of weed killer can spray $\frac{2}{5}$ of a lawn. How many liters would it take to spray 1 entire lawn?

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

3) A chef had to fill up $\frac{4}{6}$ 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?

4) A water faucet leaked $2\frac{3}{4}$ liters of water over the course of $2\frac{3}{5}$ hours. How many liters would it have leaked after 6 hours?

5) A printer cartridge with $2\frac{1}{2}$ milliliters of ink will print off $2\frac{3}{6}$ reams of paper. How many milliliters of ink will it take to print 5 reams?

6) A bag with $2\frac{4}{5}$ quarts of peanuts can make $3\frac{2}{6}$ jars of peanut butter. How many quarts of peanuts would you need to make 2 jars?

7) A tire shop had to fill $2\frac{3}{6}$ tires with air. It took a small air compressor $2\frac{1}{3}$ seconds to fill them up. How long would it take to fill 2 tires?

8) A bucket of water was $\frac{1}{3}$ full, but it still had $3\frac{3}{5}$ gallons of water in it. How much water would be in one fully filled bucket?

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

10) A machine made $2\frac{1}{2}$ pencils in $3\frac{2}{4}$ minutes. How many pencils would the machine have made after 6 minutes?

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. $8\frac{4}{12}$
2. $10\frac{2}{4}$
3. $3\frac{6}{8}$
4. $6\frac{18}{52}$
5. $5\frac{0}{30}$
6. $1\frac{68}{100}$
7. $1\frac{39}{45}$
8. $10\frac{4}{5}$
9. $5\frac{4}{10}$
10. $4\frac{8}{28}$

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