Using Units Rates with Fractions

Name:

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

1) A carpenter goes through $3\frac{1}{3}$ boxes of nails finishing $3\frac{1}{5}$ rooves. How much would he use finishing 8 rooves?

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

3) A tire shop had to fill $2\frac{1}{3}$ tires with air. It took a small air compressor $2\frac{1}{4}$ seconds to fill them up. How long would it take to fill 6 tires?

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

5) A cookie recipe called for $2\frac{4}{6}$ cups of sugar for every $\frac{1}{5}$ cup of flour. If you made a batch of cookies using 1 cup of flour, how many cups of sugar would you need?

6) A water faucet leaked $2\frac{1}{2}$ liters of water over the course of $3\frac{4}{5}$ hours. How many liters would it have leaked after 9 hours?

7) A printer cartridge with $2\frac{1}{2}$ milliliters of ink will print off $\frac{2}{6}$ of a box of paper. How many milliliters of ink will it take to print an entire box?

8) A machine made $2\frac{1}{3}$ pencils in $\frac{2}{6}$ of a minute. It made pencils at a rate of how many per minute?

9) It takes $3\frac{1}{6}$ spoons of chocolate syrup to make $3\frac{1}{5}$ gallons of chocolate milk. How many spoons of syrup would it take to make 6 gallons of chocolate milk?

10) A container with $2\frac{4}{6}$ gallons of weed killer can spray $3\frac{1}{5}$ lawns. How many gallons would it take to spray 4 lawns?

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. $8\frac{16}{48}$
2. $5\frac{0}{4}$
3. $5\frac{22}{28}$
4. $7\frac{0}{2}$
5. $13\frac{2}{6}$
6. $5\frac{35}{38}$
7. $7\frac{2}{4}$
8. $7\frac{0}{6}$
9. $5\frac{90}{96}$
10. $3\frac{32}{96}$

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$5\frac{35}{38}$	$5\frac{90}{96}$	$7\frac{0}{2}$	$8\frac{16}{48}$	$7\frac{2}{4}$

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