Using Units Rates with Fractions

Name:

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

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

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

3) A printer cartridge with $3\frac{2}{4}$ 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?

4) A tire shop had to fill $3\frac{2}{5}$ tires with air. It took a small air compressor $2\frac{4}{5}$ seconds to fill them up. How long would it take to fill 4 tires?

5) It takes $2\frac{3}{5}$ kilometers of thread to make $3\frac{1}{5}$ boxes of shirts. How many kilometers of thread will it take to make 9 boxes?

6) A water faucet leaked $2\frac{4}{6}$ liters of water every $\frac{5}{6}$ of an hour. It leaked at a rate of how many liters per hour?

7) A chef had to fill up $2\frac{2}{6}$ containers with mashed potatoes. He ended up using $3\frac{3}{4}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up 4 containers?

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

9) A bag with $3\frac{2}{4}$ ounces of peanuts can make $\frac{4}{6}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

10) A bucket of water was $\frac{1}{2}$ full, but it still had $3\frac{4}{5}$ gallons of water in it. How much water would be in one fully filled bucket?

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. $2\frac{19}{28}$
2. $7\frac{4}{5}$
3. $10\frac{4}{8}$
4. $3\frac{25}{85}$
5. $7\frac{25}{80}$
6. $3\frac{6}{30}$
7. $6\frac{24}{56}$
8. $5\frac{48}{66}$
9. $5\frac{4}{16}$
10. $7\frac{3}{5}$

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