Using Units Rates with Fractions

Name:

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

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

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

3) A chef had to fill up $\frac{4}{5}$ of a container with mashed potatoes. He ended up using $2\frac{4}{6}$ pounds of mashed potatoes. How many pounds would he use if he had to fill up the entire container?

4) A bag with $2\frac{1}{6}$ ounces of peanuts can make $\frac{2}{5}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

5) A carpenter goes through $2\frac{3}{5}$ boxes of nails finishing $3\frac{1}{2}$ rooves. How much would he use finishing 8 rooves?

6) A water faucet leaked $3\frac{2}{4}$ liters of water every $\frac{1}{6}$ of an hour. It leaked at a rate of how many liters per hour?

7) A machine made $2\frac{2}{6}$ pencils in $3\frac{3}{4}$ minutes. How many pencils would the machine have made after 9 minutes?

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

9) A tire shop had to fill $3\frac{1}{2}$ tires with air. It took a small air compressor $3\frac{3}{5}$ seconds to fill them up. How long would it take to fill 3 tires?

10) It takes $3\frac{1}{2}$ spoons of chocolate syrup to make $3\frac{3}{5}$ gallons of chocolate milk. How many spoons of syrup would it take to make 6 gallons of chocolate milk?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

LIVEWORKSHEETS