Using Units Rates with Fractions Name:

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

1) A bag with $2\frac{1}{4}$ ounces of peanuts can make $\frac{3}{6}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

2) It takes $2\frac{1}{6}$ 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?

3) A water faucet leaked $2\frac{2}{3}$ liters of water over the course of $2\frac{1}{2}$ hours. How many liters would it have leaked after 7 hours?

4) A carpenter goes through $2\frac{1}{2}$ boxes of nails finishing $3\frac{1}{6}$ rooves. How much would he use finishing 4 rooves?

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

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

7) It takes $3\frac{2}{4}$ yards of thread to make $\frac{1}{4}$ of a sock. How many yards of thread will it take to make an entire sock?

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

9) A tire shop had to fill $2\frac{2}{3}$ 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 8 tires?

10) A printer cartridge with $3\frac{1}{5}$ milliliters of ink will print off $3\frac{2}{6}$ reams of paper. How many milliliters of ink will it take to print 7 reams?

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. $4\frac{6}{12}$
2. $4\frac{2}{6}$
3. $7\frac{7}{15}$
4. $3\frac{6}{38}$
5. $4\frac{4}{6}$
6. $8\frac{2}{5}$
7. $14\frac{0}{4}$
8. $4\frac{24}{30}$
9. $8\frac{16}{40}$
10. $6\frac{72}{100}$

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