

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

- 1) A machine made  $3\frac{1}{2}$  pencils in  $\frac{2}{5}$  of a minute. It made pencils at a rate of how many per minute?
- 2) It takes  $2\frac{1}{2}$  spoons of chocolate syrup to make  $\frac{1}{4}$  of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?
- 3) A bag with  $3\frac{3}{5}$  quarts of peanuts can make  $2\frac{5}{6}$  jars of peanut butter. How many quarts of peanuts would you need to make 5 jars?
- 4) A carpenter goes through  $3\frac{1}{3}$  boxes of nails finishing  $\frac{4}{6}$  of a roof. How much would he use finishing the entire roof?
- 5) A bucket of water was  $\frac{1}{3}$  full, but it still had  $2\frac{2}{4}$  gallons of water in it. How much water would be in one fully filled bucket?
- 6) It takes  $2\frac{1}{2}$  kilometers of thread to make  $3\frac{1}{6}$  boxes of shirts. How many kilometers of thread will it take to make 2 boxes?
- 7) A cookie recipe called for  $3\frac{1}{6}$  cups of sugar for every  $3\frac{2}{6}$  cups of flour. If you made a batch of cookies using 3 cup of flour, how many cups of sugar would you need?
- 8) A chef had to fill up  $\frac{1}{2}$  of a container with mashed potatoes. He ended up using  $2\frac{3}{4}$  pounds of mashed potatoes. How many pounds would he use if he had to fill up the entire container?
- 9) A tire shop had to fill  $2\frac{1}{4}$  tires with air. It took a small air compressor  $2\frac{1}{6}$  seconds to fill them up. How long would it take to fill 7 tires?
- 10) A printer cartridge with  $2\frac{1}{6}$  milliliters of ink will print off  $3\frac{2}{3}$  reams of paper. How many milliliters of ink will it take to print 9 reams?

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**Answers**

1.  $8\frac{3}{4}$
2.  $10\frac{0}{2}$
3.  $6\frac{30}{85}$
4.  $5\frac{0}{12}$
5.  $7\frac{2}{4}$
6.  $1\frac{22}{38}$
7.  $2\frac{102}{120}$
8.  $5\frac{2}{4}$
9.  $6\frac{40}{54}$
10.  $5\frac{21}{66}$



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