Using Units Rates with Fractions

Name:

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

1) It takes $3\ ^{1}/_{3}$ spoons of chocolate syrup to make $^{2}/_{5}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?

2) A water faucet leaked $2\ ^{1}/_{2}$ liters of water over the course of $2\ ^{2}/_{3}$ hours. How many liters would it have leaked after 4 hours?

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

4) A printer cartridge with $3\ ^{1}/_{4}$ milliliters of ink will print off $2\ ^{1}/_{2}$ reams of paper. How many milliliters of ink will it take to print 5 reams?

5) A bag with $3\ ^{3}/_{5}$ ounces of peanuts can make $^{2}/_{4}$ of a jar of peanut butter. It can make one full jar with how many ounces of peanuts?

6) A carpenter goes through $3\ ^{1}/_{3}$ boxes of nails finishing $^{1}/_{2}$ of a roof. How much would he use finishing the entire roof?

7) A machine made $3\ ^{1}/_{6}$ pencils in $2\ ^{1}/_{3}$ minutes. How many pencils would the machine have made after 7 minutes?

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

9) It takes $2\ ^{3}/_{5}$ yards of thread to make $^{3}/_{6}$ of a sock. How many yards of thread will it take to make an entire sock?

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

Answers

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

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

Using Units Rates with Fractions

Name: **Answer Key**

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

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Answers

1. $8\frac{2}{6}$
2. $3\frac{12}{16}$
3. $6\frac{12}{52}$
4. $6\frac{10}{20}$
5. $7\frac{2}{10}$
6. $6\frac{2}{3}$
7. $9\frac{21}{42}$
8. $3\frac{3}{24}$
9. $5\frac{3}{15}$
10. $6\frac{22}{33}$

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