Using Units Rates with Fractions

Name:

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

1) It takes $2\ ^{1}/_{6}$ spoons of chocolate syrup to make $^{1}/_{5}$ of a gallon of chocolate milk. How many spoons of syrup would it take to make 1 gallon of chocolate milk?

2) It takes $3\ ^{1}/_{3}$ gallons of water to fill up $3\ ^{1}/_{2}$ containers. How much water would it take to fill 3 containers?

3) A printer cartridge with $2\ ^{2}/_{4}$ milliliters of ink will print off $2\ ^{5}/_{6}$ reams of paper. How many milliliters of ink will it take to print 3 reams?

4) A bag with $3\ ^{2}/_{3}$ quarts of peanuts can make $2\ ^{1}/_{2}$ jars of peanut butter. How many quarts of peanuts would you need to make 4 jars?

5) It takes $2\ ^{4}/_{5}$ yards of thread to make $^{1}/_{2}$ of a sock. How many yards of thread will it take to make an entire sock?

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

7) A container with $3\ ^{2}/_{6}$ liters of weed killer can spray $^{1}/_{5}$ of a lawn. How many liters would it take to spray 1 entire lawn?

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

9) A water faucet leaked $3\ ^{2}/_{6}$ liters of water over the course of $3\ ^{2}/_{3}$ hours. How many liters would it have leaked after 5 hours?

10) A bike tire was $^{5}/_{6}$ full. It took a small air compressor $3\ ^{3}/_{5}$ seconds to fill it up. How long would it have taken to fill an empty tire?

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**

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Answers

1. $10\frac{5}{6}$
2. $2\frac{18}{21}$
3. $2\frac{44}{68}$
4. $5\frac{13}{15}$
5. $5\frac{3}{5}$
6. $7\frac{53}{85}$
7. $16\frac{4}{6}$
8. $10\frac{0}{2}$
9. $4\frac{36}{66}$
10. $4\frac{8}{25}$

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